ORDEN No. PMX1110004CS

Manual de Servicio

Televisor de LED /LCD

TC-L32X35X LED HD Serie X35 120V ATSC/NTSC
TC-L32X35L LED HD Serie X35 220V ISDB-T/NTSC
TC-L32X35M LED HD Serie X35 120V NTSC

Chasis LA15

Este Manual de Servicio se edita para guía de mantenimiento a los equipos de Televisión de la familia X35 MODELOS 2011 mencionados en esta portada. Así mismo se incluyen diagramas eléctricos y de bloques con sus respectivos procedimientos de ajuste y la lista de materiales para su referencia.

Panasonic

Copyright 2011 por Panasonic de México, S.A. de C.V. Todos los derechos reservados. La copia y distribución no autorizada esta prohibida por la ley.

⚠ ADVERTENCIA

Este manual de servicio solo esta diseñado para técnicos en reparación con experiencia y no para el público en general. No contiene advertencias ó precauciones sobre los peligros al dar mantenimiento por personas que no estén familiarizadas en esta área. El mantenimiento ó reparación de productos que funcionen con electricidad deben ser realizadas por personas con experiencia. Cualquier intento de reparar ó dar mantenimiento a los aparatos descritos en este manual por personas sin experiencia puede causar lesiones serias ó incluso hasta la muerte.

CONTENIDO

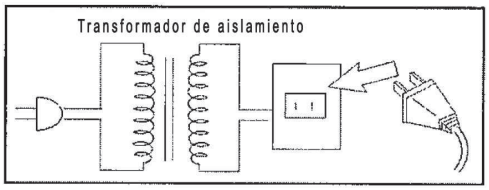
		Página
	Portada.	
	Índice.	2
1	Precauciones de seguridad.	3
1.1	Guía general.	
1.2	Verificación de filtración de corriente fría.	
1.3	Verificación de filtración de corriente Caliente.	
2	Precauciónes.	4
2.1	Prevención de descarga electroestática.	
2.2	Soldadura libre de plomo.	
3	Servicio.	5
3.1	Modo de servicio.	
3.2	Contenido de los ajustes.	
4	SRV TOOL Herramienta de servicio.	6
4.1	Como acceder a menú de SRV TOOL.	
4.2	Despliegue de historial SOS.	
4.3	Contador y tiempo de encendido.	
5	Guía para solución de problemas.	7
5.1	Función self check.	
5.2	Parpadeo de led frontal.	
5.3	No enciende.	
6	Modo de Hotel.	8
6.1	Como acceder a la función modo de Hotel.	
6.2	Descripción de las funciones de modo de Hotel.	
7	Mediciones y ajuste.	
7.1	Carta de voltajes.	8
7.2	Ajuste de contraste (RF).	
8	Especificaciones.	10
9	Instrucciones de ensamble y desensamble del Televisor.	11
9.1	Pedestal y tapa posterior.	
9.2	Placa de poder, LD, Placa A.	
9.3	Desensamble de partes pequeñas	
9.4	Cable LVDS	12
9.5	Seguros metalicos	
9.6	LED Panal	
9.7	Diagrama de conexiones	13

		Página
10	Listas de partes de remplazo.	14
10.1	Notas de lista de partes de remplazo.	
10.2	Listas de partes Placa principal A	15
10.3	Listas de partes placa de poder P	25
10.4	Listas de partes sensor panel KA aplica a todos los modelos.	28
10.5	Listas de partes led driver LD	29
10.6	Listas de Partes Mecanicas	30
11	Diagrama de bloques	31
12	Layout placa principal A TNPH0907	
12.1	Layout pcb A vista frontal	34
12.2	Layout pcb A vista trasera	35
13	Layout PCB P TNPA5364	36
14	Layout PCB KA TNPA5378	37
15	Layout PCB LD TNPA5377	38
17	Esquematicos	39
	Esquematicos placa principal A.	41
	Esquematicos placa P TNPA5364,	61
	Esquematicos LD TNPA5377,	62
	Esquematicos KA TNPA5378,	63

1 Precauciones de Seguridad

1.1 Guía General

1. Es aconsejable conectar un transformador de aislamiento en el suministro AC antes de reparar un chasis dañado.



2. Cuando se de servicio, inspeccione el recubrimiento original de los cables, especialmente en los circuitos de alta tensión. Si se localiza un corto circuito, reemplace todas las partes dañadas (incluyendo aquellas que muestran señales de sobre calentamiento).

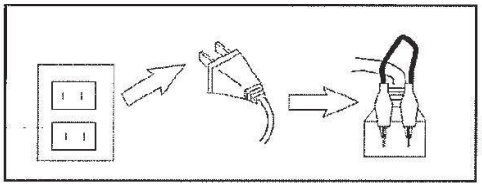
3. Después de la reparación, observe que todos los dispositivos de protección como son papel de fibra aislante, resistores y capacitores de aislamiento, así como los blindajes estén correctamente instalados.

4. Cuando el Receptor no sea usado por largos periodos de tiempo, desconecte el cable AC del toma de corriente.

Después de reparar el modelo deberá realizar una prueba minuciosa de la unidad, con el fin de asegurarse de que su manejo sea seguro.

1.2 Verificación de filtración de corriente fría

1. Desconecte el cable de suministro AC y conecte un puente (jumper) entre las dos terminales del conector.



2. Encienda el interruptor de potencia del receptor.

3. Mida la resistencia entre el conector puenteando y las partes metálicas expuestas como son cabezas de tornillos, terminales de antena, etc. Si la parte metálica expuesta tiene un retorno al chasis, la lectura deberá oscilar entre 100MΩ . Si la parte metálica expuesta no tiene un retorno al chasis la lectura deberá ser infinita.

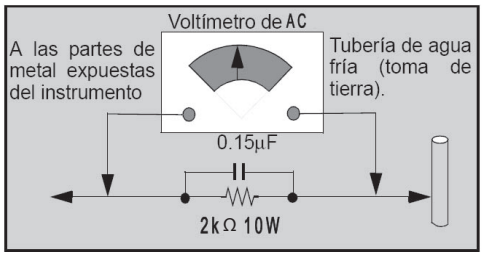
1.3 Verificación de filtración de corriente caliente

1. Conecte el cable de AC directamente al toma corriente. No utilice el transformador de aislamiento durante la revisión.

2. Conecte una resistencia a 2 k Ω 10 watts con una parte metálica expuesta en el receptor y un tubo de tierra.

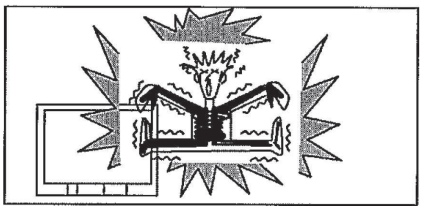
3. Utilice un multimetro digital con mayor tipo de impedancia para medir el voltaje de AC a través del resistor.

4. Verifique que cada parte metálica expuesta no exceda del voltaje para medir cada punto.



5. Revise el cable de AC de la toma corriente y repita cada una de las medidas anteriores..

6. Verifique que cualquier voltaje encontrado no exceda de **0.7 mA** AC o **2 mA** DC. En cualquier caso que la medición esté fuera de los límites especificados, existe la posibilidad de un corto, el receptor deberá ser revisado antes de regresarse al cliente.



2 PRECAUCIONES

PRECAUCIÓN
CONTIENEN PARTES Y ENSAMBLES SUSCEPTIBLES
DE DAÑARSE POR DESCARGAS ELECTROSTÁTICAS.

2.1 Prevención de Descarga Electrostática (ESD), El equipo es Sensible a la Electrostática (ES).

Algunos dispositivo semiconductor (estado sólido) pueden ser dañados fácilmente por electricidad estática. Normalmente se llaman Dispositivos Sensibles a la Electrostática (ES). Ejemplos típicos de dispositivos de ES son circuitos integrados algunos transistores de efecto de campo y componentes semiconductores [chip]. Las técnicas siguientes deben usarse para ayudar a reducir la incidencia de daño del componente por la descarga electrostática (ESD).

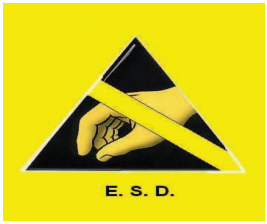
1. Inmediatamente antes de ocuparse de cualquier componente semiconductor o semiconductor ensamblado. Drene fuera de su cuerpo la carga ESD tocando una tierra conocida. Conjuntamente, obtenga una correa para su muñeca para descargar la energía electrostática, para mayor protección de los dispositivos sensibles a la ESD.
2. Después de quitar un dispositivo semiconductor ES, ponga el dispositivo en un material conductivo como la lamina de aluminio, para prevenir aumento de carga electrostática o exposición del ensamble.
3. Use Cautin con conexión a Tierra para soldar o desoldar los dispositivos de ES.
4. Use sólo removedor de soldadura antiestático. Algunos dispositivos removedor no son clasificados como [antiestáticos (ESD)] puede generar carga eléctrica suficiente para dañar los dispositivos ES.
5. No use los químicos freon. Estos pueden generar cargas eléctricas suficiente para dañar los dispositivos de ES.
6. No quite un dispositivo ES inmediatamente de su empaqué de protección hasta antes de que usted esté listo para instalarlo. (Los dispositivos de ES que son reemplazos deben de estar empacados con protección de cortos eléctricos junto con espuma conductiva, lamina de aluminio o material conductivo comparable).
7. Inmediatamente antes de quitar el material de protección del dispositivo de ES, toque el material protector con el chasis o ensamble el circuito en el dispositivo que se instalará.

Precaución

Asegúrese de que ningún Voltaje es aplicado al chasis o circuito, y observe todas las otras precauciones de seguridad.

8. Minimice los movimientos corporales al ocuparse del reemplazo de los dispositivos ES.

SÍMBOLOS USADOS EN DISPOSITIVOS SUSCEPTIBLES A ESD.

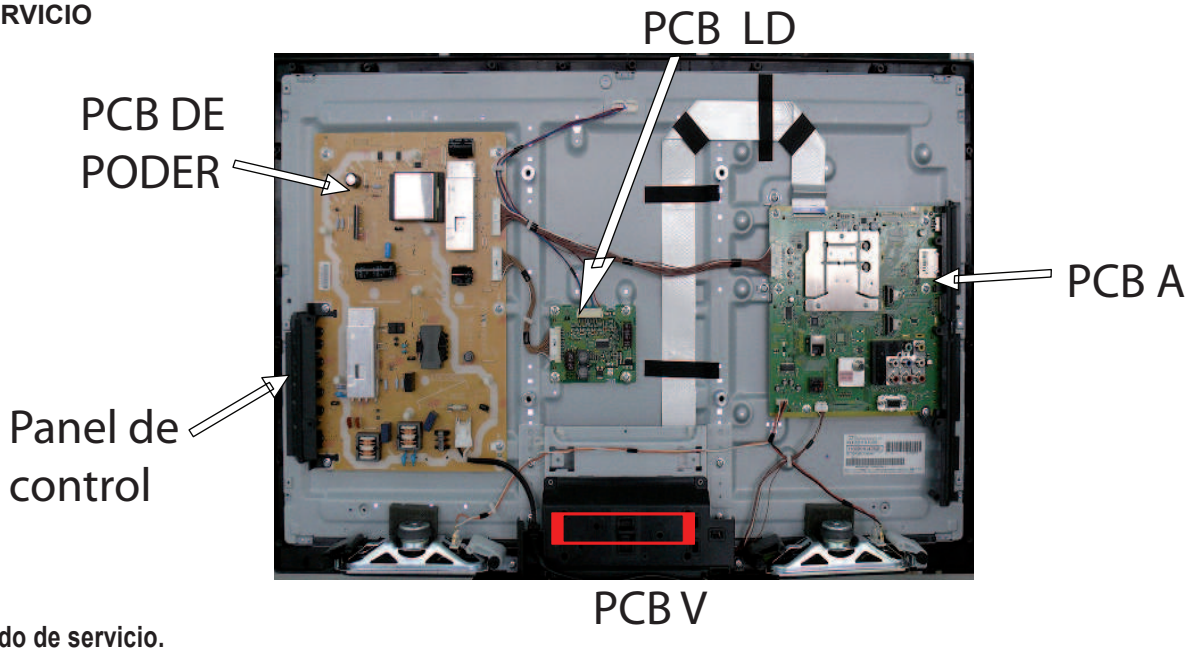


2.2 Soldadura libre de plomo (PbF).

La Soldadura Libre plomo es usada en nuestros procesos de fabricación y es (Sn+Ag+Cu). Estaño (Sn), Plata (Ag) y Cobre (Cu) aunque otros tipos están disponibles. Debido a los problemas de conservación ambientales. Para el servicio y trabajo de la reparación, sugerimos el uso de soldadura libre de plomo., aunque la soldadura de Pb puede usarse.
Un Símbolo en forma de hoja y PbF se estampó en la parte de atrás del PCB para referencia del uso de soldadura sin plomo.

Precaución:
La soldadura libre de plomo tiene un punto de fundición más alto que la soldadura normal. Típicamente el punto de fundición es 50 ~ 70 °F (30~40 °C) superior. Por favor use una temperatura alta y póngalo a 700 ± 20 °F (370 ± 10 °C).
Si va a usar soldadura con plomo Pb por favor remover todo la soldadura antes de aplicar la soldadura con Pb.

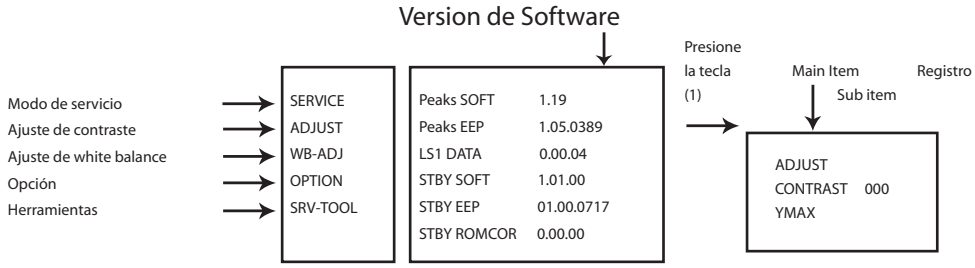
3.0 SERVICIO



3.1 Modo de servicio.

Como entrar al modo de Fact test

1.- Presione el boton de volumen (-) y al mismo tiempo presione en el control remoto la tecla (info) tres veces dentro de tres segundos.



Navegacion con el control remoto.

Tecla (1) Principales items en direccion hacia adelante

Tecla (2) Principales items en direccion hacia atras

Tecla (3) Principales items en dirección hacia adelante

Tecla (4) Principales items en dirección hacia atras

3.2 Contenido de modo de servicio.

Es necesario que confirme estos registros en el equipo, si no cambie a los especificado en estas tablas.

MENU	SUB MENU	SERIE X35
ADJ AJUSTE	CONTRASTE	ver pagina 9
	COLOR	59
	TINT	FE
	SUB-BRT	800
	BACKLGT	26C
	B-Y-G	40
	R-Y-A	00
	VCOM	1A1

MENU	SUB MENU	Serie 35
OPTION	BOOT	ROM
	STBY-SET	00
	EMERGENCY	ON
	CLK MODE	00
	CLOCK	0D8
	EDID CLK	HIGH

MENU

WB - ADJ SOLO MODO VIVIDO

TC-L32X35X

Vivido	R-Gain	G-Gain	B-Gain	R-Cent	G-Cent	B-Cent
Cool	72	78	80	6D	6C	80
Normal	80	80	75	70	6E	80
Warm	80	63	44	6E	7D	80

TC-L32X35M

Vivido	R-Gain	G-Gain	B-Gain	R-Cent	G-Cent	B-Cent
Cool	5A	6C	80	86	80	94
Normal	7D	7D	80	7D	80	98
Warm	80	6A	5A	86	80	8C

TC-L32X35L

Dynamic	R-Gain	G-Gain	B-Gain	R-Cent	G-Cent	B-Cent
Cool	54	6B	80	88	80	8F
Normal	77	7C	80	7F	80	93
Warm	80	6E	5F	88	80	83

MENU	SUB MENU	Serie X35
SRV-TOOL		ver pagina 6

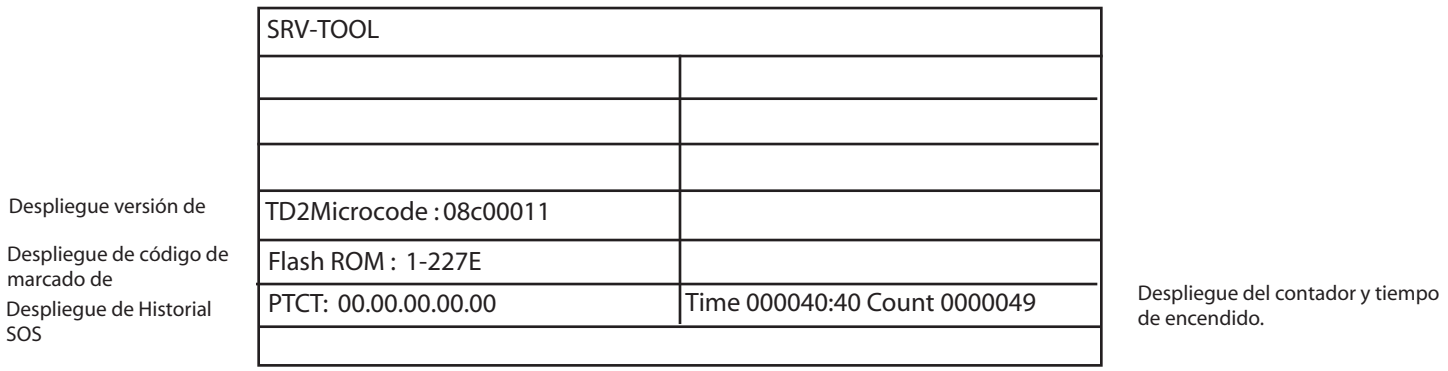
NOTA :

Para salir solo apague el televisor desconectando el cable de AC.

4 SRV-TOOL HERRAMIENTAS DE SERVICIO

4.1 Como accesar.

1.- Seleccione SRV-TOOL en service mode
2.- Presione OK en el control remoto



4.2 Despliegue del Historial SOS.

Historial SOS

De Izquierda a derecha ; Ultimo SOS, Antes del ultimo, Tercer ocurrencia antes, 2a ocurrencia después de embarque, 1a ocurrencia después del embarque.

Esta indicación excepto la 2a y la 1a ocurrencia después del embarque se aclarara por indicación de self check y Forzado a condiciones de modo de fabrica.

4.3 Contador y Tiempo de Encendido.

Utilice el cursor del control remoto para desplazarse a la casilla de despliegue del Contador de tiempo de encendido y contador de veces en que el TV ha sido encendido y apagado.

Nota : Para desplegar el menú “contador y tiempo de encendido”, presione MUTE por 3 segundos.
Time : Tiempo de encendido acumulado, indicando la hora : minuto en decimal.
Count : Numero de veces que se ha encendido el TV en decimal.

Nota : estas indicaciones no son restablecidas por ningún Self Check o algún otro comando.

Salir del Menú

Desconecte el TV del toma corriente

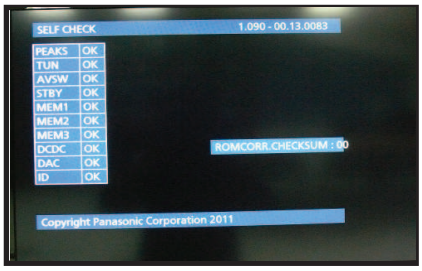
5 GUIA PARA SOLUCION DE PROBLEMAS.

5.1 Función Self check

a) Solo indicaciones de self check : Use esta función para confirmar la comunicación de las IIC como auto diagnostico.
Como accesar al modo de self check autodiagnostico.
Presione en el Televisor la tecla de Volumen (-), y al mismo tiempo en el control remoto presione la tecla [OK] por mas de 3 segundos una imagen como la que se muestra abajo sera desplegada.

b) Indicacion de self check + reset : Use esta función para confirmar el estado de las memorias IIC y establecer los registros a modo de fabrica.
Como accesar al modo de self check autodiagnostico y reset del TV.
Presione en el Televisor la tecla de Volumen (-), y al mismo tiempo en el control remoto presione la tecla [menu] por mas de 3 segundos una imagen como la que se muestra abajo sera desplegada.

Solo TC-L32X35X Y TC-L32X35M



Solo TC-L32X35L

Confirmar si el mensaje no sea NG

SLEF CHECK	SLEF CHECK	TC-L32X35X	TC-L32X35L	TC-L32X35M
PEAKS	PEAKS	OK	OK	OK
TUNER	TUN	OK	OK	OK
AVSW	AVSW	OK	OK	OK
STBY	STBY	OK	OK	OK
PEAKS-EEP	MEM1	OK	OK	OK
STBY-EEP	MEM2	OK	OK	OK
TCON-DAC	DAC	OK	OK	OK
TCON-DC DC	DC-DC	OK	OK	OK
TCON-EEP	MEM3	OK	OK	OK
ID	ID	OK	OK	OK
iPod-cp	iPod-cp	--	--	--

5.2 Parpadeo de LED Frontal.

Parpadeo de LED frontal funciona cuando una anormalidad en el Televisor esta ocurriendo, esta funcion opera como protección de los circuitos por lo que cambia el Televisor a modo stand by.

Para ubicar el bloque defectuoso puede verificar el numero de veces que parpadea el LED, ver tabla para referencia.

Parpadeo de led	Descripción	Comentarios
1		BL_SOS
2		main microprocesor_SOS
3		SOS tuner powersource
4		SUB12V_SENSE_SOS
7		SUB3.3V_SENSE_SOS
9		SOUND SOS
10		ZWEI2_SOS
12		BE(SId)_SOS
13		EMERGENY_SOS
14		IROM_SOS

Tabla 2

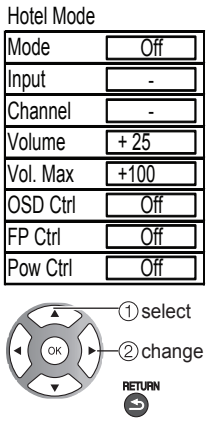
5.3 Cuando el Televisor no encienda.

Existen dos estados de no enciende,

1.- Parpadeo del LED por pocos segundos ver Tabla 2.

2.- No hay indicación del LED :
a) Confirme voltajes en la placa de poder [P] (ver Pagina 9).
b) Confirme los voltajes de la placa [A] (ver Pagina 9).

6 MODO DE HOTEL



El propósito es restringir funciones del TV para operación en los Hoteles

6.1 Como accesar al Menu Modo de Hotel

1.- Para accesar al modo de hotel es necesario realizar esta operación dentro de 2 segundos.
Mantener presionada la tecla en el TV de volumen (-) y en el control remoto presione el boton (Input) por 3 veces al mismo tiempo.

Entonces, el menu de modo de Hotel sera desplegado.

6.2 Descripcion de funciones de modo de Hotel

Menú	Operación
Modo	Selecciona el modo de hotel off/on
Input	Seleccione modos de señal de entrada, esta opción selecciona la entrada de AV cada vez que se enciende el TV. Selecciona : --- /RF/Component/HDMI1/HDMI2/Video1/Video2/PC Off: Le da prioridad al registro al ultimo registro de memoria.
Channel	Selecciona el canal cuando la entrada de señal es RF. Selecciona el canal cada vez que el TV es encendido.
Volume	Ajusta el volumen cada vez que se enciende el TV. Rango: 0 a 100
Vol. Máx	Ajusta al volumen deseado Rango: 0 a 100
OSD Ctrl	Restricciones de OSD Selection: OFF: No restricción PATTERN1: Restricción
FP Ctrl	Selección de condición de teclas frontales. Selección: Off: Todas las teclas son validas. Pattern1: Solo la tecla de AV es Valida. All: ninguna tecla es valida.
Pow Ctrl	Seleccione la condición de POWER-ON/OFF cuando el cable de AC es desconectado y después conectado. OFF: Misma condición cuando el cable de AC es desconectado. ON: Enciende cada vez que el cable de AC es conectado.

7 MEDICIONES Y AJUSTES

7.1 Carta de voltajes.

PLACA DE PODER

MODELO TC-L32X35X TC-L32X35L TC-L32X35M

TNPA5364

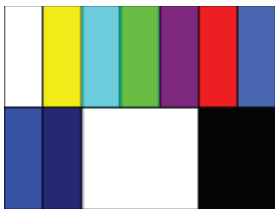
VOLTAJE	PUNTO DE PRUEBA	ESPEC.	ESTADO
PFC390V	+ TP7201, 7202	390 ± 15	RECEPCIÓN
LED24V	- TP7514, 7515	24 ± 2	RECEPCIÓN
DTV16V	TP7503, 7504	15.6 ± 1.5	RECEPCIÓN
STBY6V	TP7501, 7502	5.8 ± 0.8	RECEPCIÓN
		5.8 ± 0.8	**STAND BY**

HOT

PLACA DE PRINCIPAL A

TEST POINT / CHASIS	LA15	ESPEC	COMENTARIOS
STB3.3V	TP2773	3.3 ± 0.16 V	---
STB3.3V	TP8701	3.3 ± 0.16 V	---
SUB5V	TP8702	5.1 ± 0.25 V	---
PANEL 12V	TP8716	12 ± 0.6 V	---
AVDD12.5V	TP4021	12.5 ± 2 V	---
TCON2.5V	TP4027	2.5 ± 0.12 V	---
TCON31V	TP4051	31 ± 3.1 V	---
TCON-6V	TP4050	-5.7 ± 0.6 V	---

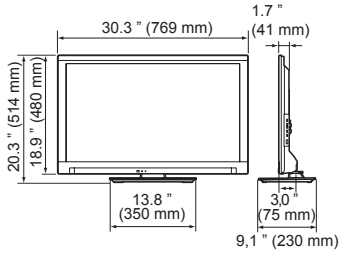
7.2 Ajuste de contraste (Solo RF).

INSTRUMENTOS	**COMENTARIOS**
Control remoto RF = SEÑAL EXT COLOR BAR	 Patrón sprit color bar
PROCEDIMIENTO	**COMENTARIOS**
Entre al modo de servicio y con las teclas 1, 2 del control remoto seleccione el canal donde tiene el patrón Color bar. 1.- Seleccione el modo de ajuste como se muestra ADJUST VIVID CONTRAST Y MAX Presione OK por mas de 3 segundos y observe que la operación se realice de forma Automática.	Tiene que tener de fondo el patrón Color Bar.

8 ESPECIFICACIONES

		TC-L32X35X TC-L32X35M	TC-L32X35L
Alimentación		110-127 V CA, 60 Hz (TC-L32X35X, TC-L32X35M), 220V CA, 60 Hz (TC-L3235L).	
Consumo	**Máximo** **Condición de espera**	56 W 0,2 W	
Panel de visualización	**Relación de aspecto**	16:9	
	Tamaño de pantalla visible **(An. × Al. × Diagonal)**	Clase 32" (31,5 pulgadas medidas diagonalmente)	
	(Número de píxeles)	698 mm × 392 mm × 800 mm (27,5 " × 15,4 " × 31,5 ")	
		1.049.088 (1.366 (W) × 768 (H))	
Sonido	**Altavoces**	Sistema de 2 altavoces delgados de 1 vía situados debajo de la unidad principal	
	Salida de audio	20 W [10 W + 10 W] (10 % de distorsión armónica total)	
Señales PC		VGA, SVGA, XGA, WXGA, SXGA Frecuencia de escaneo horizontal 31 - 69 kHz Frecuencia de escaneo vertical 59 - 86 Hz	
Capacidad de canales-Digital/Analógico		ATSC / NTSC VHF/ UHF: 2 - 69, CATV: 1 - 135	ISDB-T / NTSC VHF/ UHF: 2 - 69, CATV: 1 - 125
Condiciones de funcionamiento		Temperatura: 32 °F – 95 °F (0 °C – 35 °C) Humedad: 20 % – 80 % RH (sin condensación)	
Terminales de conexión	**VIDEO IN**	VIDEO: Tipo RCA PIN × 1 1,0 V [p-p] (75 Ω) AUDIO L-R: Tipo RCA PIN × 2 0,5 V [rms]	SOLO TC-L32X35X TC-L32X35M
	VIDEO IN 2	VIDEO: Tipo RCA PIN × 1 1,0 V [p-p] (75 Ω) AUDIO L-R: Tipo RCA PIN × 2 0,5 V [rms]	SOLO TC-L32X35L
	COMPONENT IN	Y: 1,0 V [p-p] (incluyendo sincronización) P_B, P_R: ±0,35 V [p-p] AUDIO L-R: Tipo RCA PIN × 2 0,5 V [rms]	COMPONENT IN AV1 TC-L32X35L
	HDMI 1-N *	Conector tipo A x 3 ● Este televisor soporta la función "HDAVI Control 5".	
	PC	D-SUB DE 15: R,G,B / 0,7 V [p-p] (75 Ω) HD, VD / 1,0 - 5,0 V [p-p] (alta impedancia)	
	Ranura de tarjeta	1 Ranura de tarjeta SD	
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fibra óptica	
	Base para Ipod	CC 5V 1A máximo solo TC-L32X30X	
	LAN	RJ45 (10BASE-T/ 100BASE-TX	
	USB	USB 2.0 Conector tipo A x 2 (CC 5V [p-p] (alta impedancia)	
	Salida de monitor	VIDEO: Tipo RCA PIN × 1 1,0 V [p-p] (75 Ω) solo TC-L32E3L AUDIO L-R: Tipo RCA PIN × 2 0,5 V [rms]	
CARACTERÍSTICAS		SUBTITULOS, V-Chip, HDMI (HDAVI Control 5), Compatible con Vesa, Visualizador de fotos	
Dimensiones (An. x Al. x Prof.)	**Incluyendo pedestal**	769 mm × 514 mm × 207 mm (30,3 " × 20,3 " × 8,2 ")	
	Televisor solamente	769 mm × 480 mm × 41 mm (30,3 " × 18,9 " × 1,7 ")	
Masa	**Incluyendo pedestal**	24,3 lb. (11, kg) Neto	
	Televisor solamente	20,5 lb. (9,5 kg) Neto	

[TC-L32X35X TC-L32X35L TC-L32X35M]



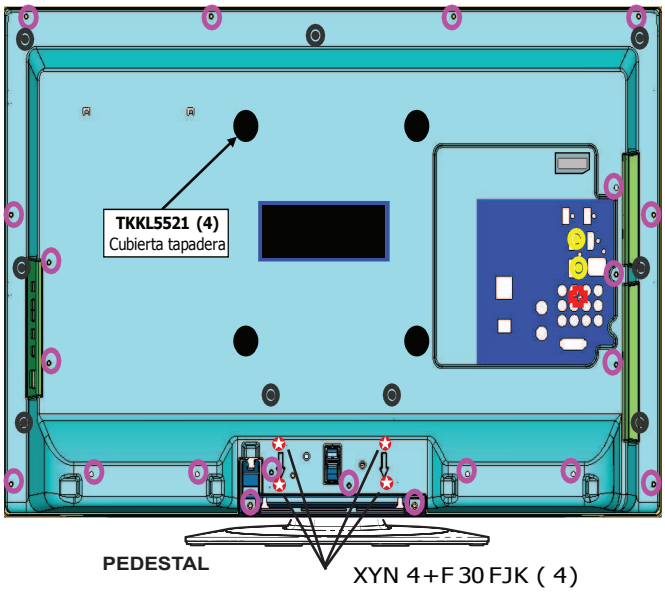
Nota

- El diseño y las especificaciones están sujetos a cambios sin previo aviso. La masa y dimensiones son aproximadas.

9 INSTRUCCIONES DE ENSAMBLE Y DESENSAMBLE DEL TELEVISOR

9.1 PEDESTAL Y TAPA POSTERIOR.

1.- Quite los tornillos para remover el pedestal y la tapa.



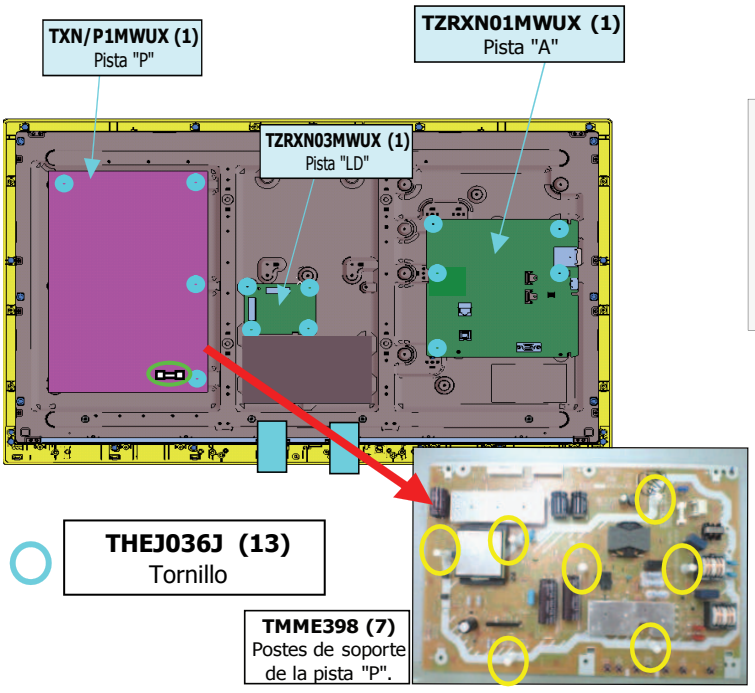
XTB4+15JFJK (21)
Tornillo

THEJ0389 (9)
Tornillo

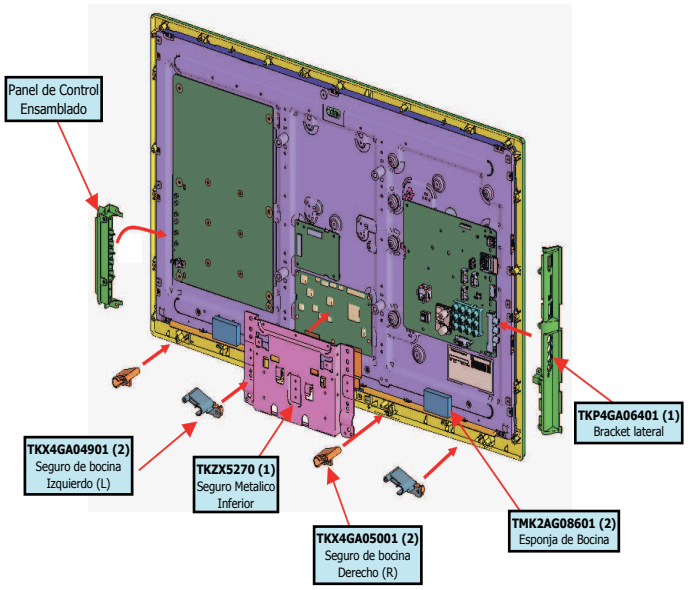
XTV3+10GFJK (1)
Tornillo

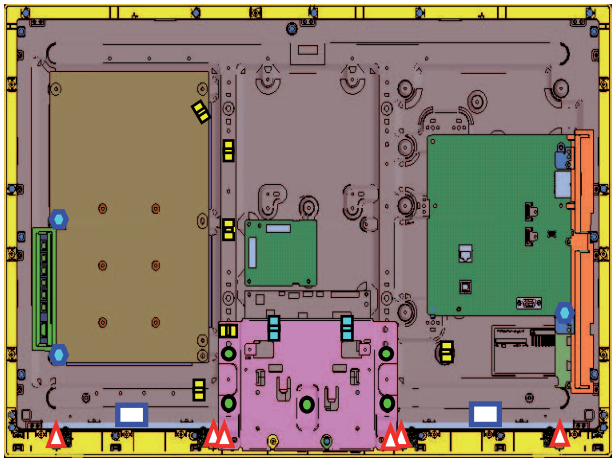
9.2 PLACA P DE PODER, LD, PLACA A.

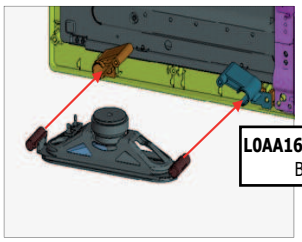
1.- Quite los tornillos para remover la placas.



9.3 DESENSAMBLE DE PARTES PEQUEÑAS.







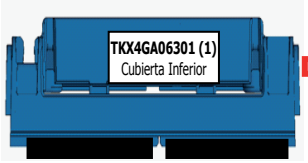
TMME268 (6)
Clamper

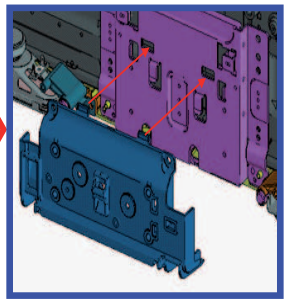
TMME260 (2)
Clamper

THEJ024 (5)
Tornillo

XTB4+15JFJ (6)
Tornillo

THEJ036J (3)
Tornillo



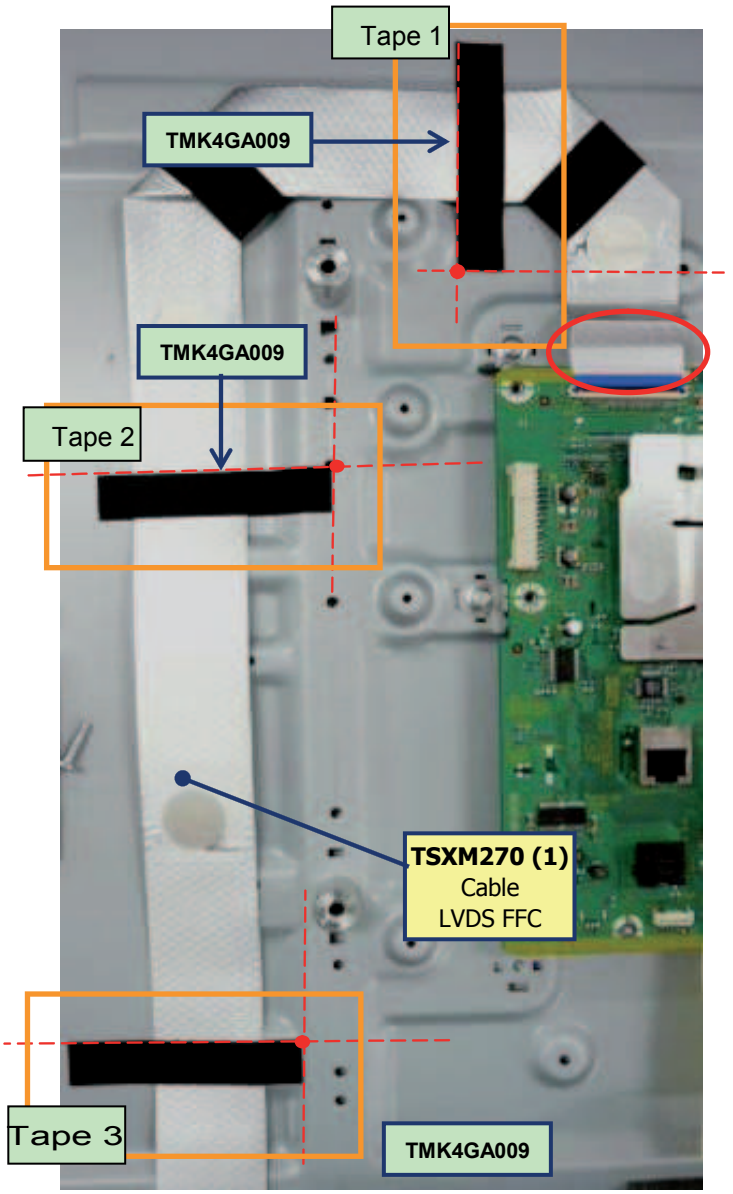


9 INSTRUCCIONES DE ENSAMBLE Y DESENSAMBLE DEL TELEVISOR.

9.4 CABLE LVDS

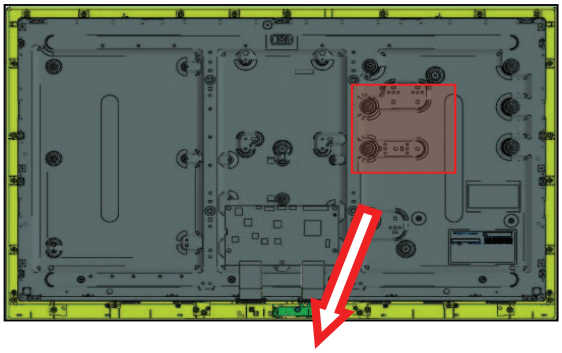
1.- Quite el tornillo.

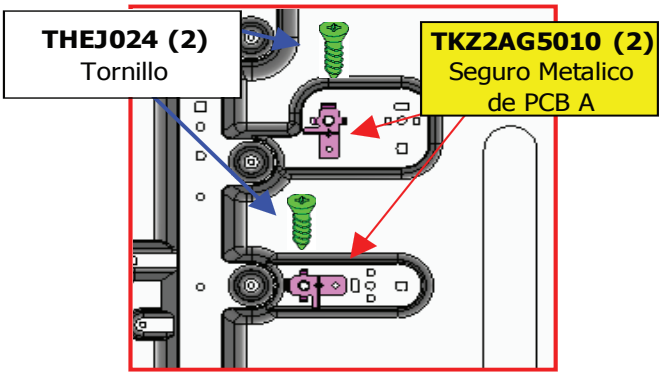
PUNTO DE CUIDADO #1
Asegure que el cable LVDS quede alineado para no ocasionar un "estrés en la conexión señalada.



9.5 SEGUROS METALICOS

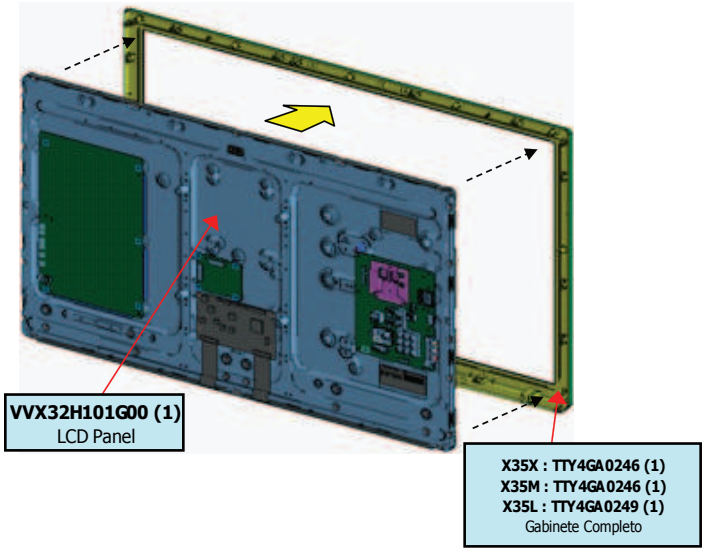
1.- Remueva el panel LVDS BARRIER.

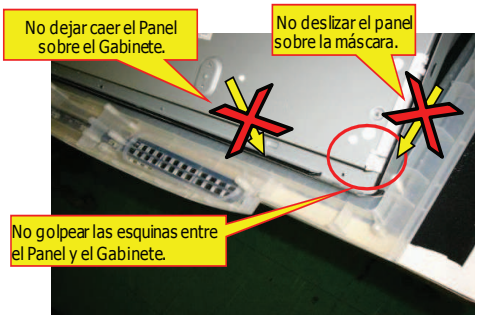




9.6 PANEL LCD

1.- Remueva el panel LCD

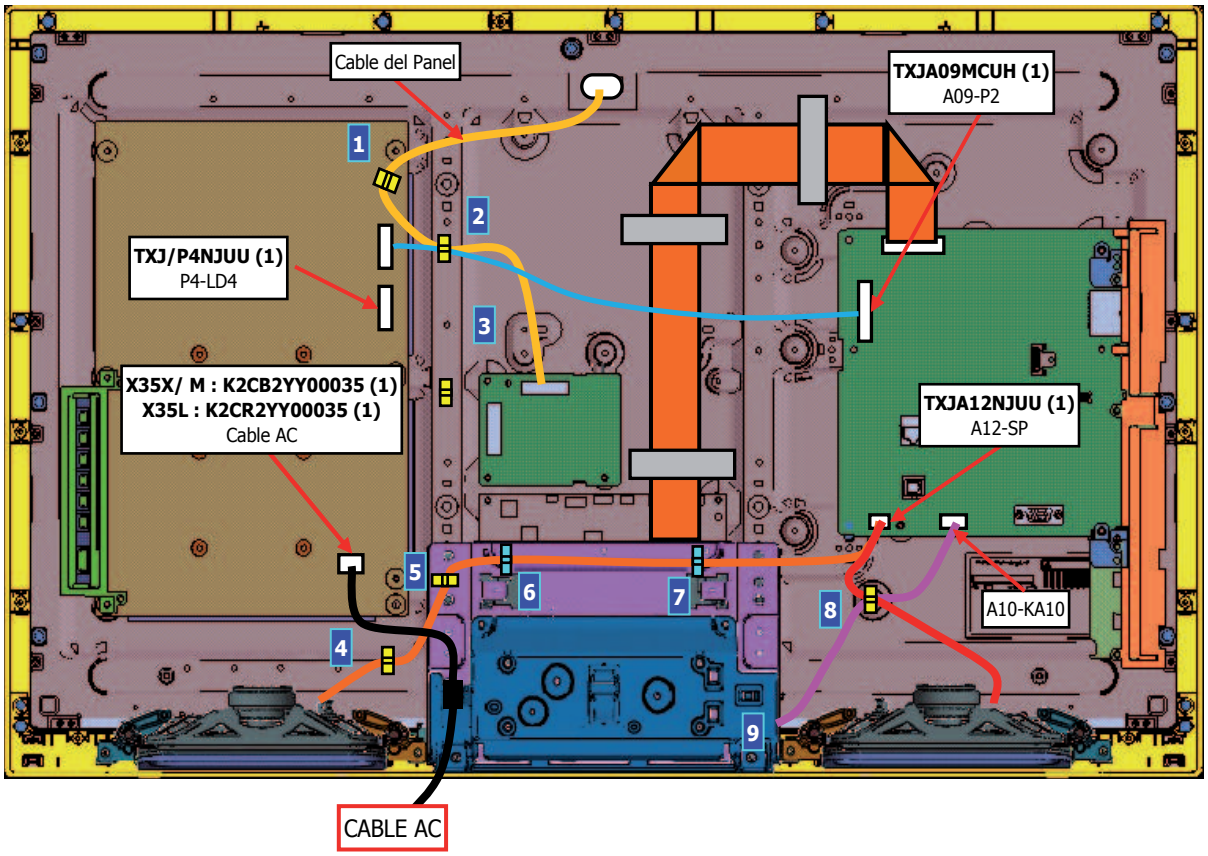




9 DIAGRAMA DE CONEXIONES MODELO TC-L32X35X/L/M.

9.7 DIAGRAMA DE CONEXIONES.

1.- Por favor confirmar que todos los cables estén conectados adecuadamente
Inclusive verifique que no estén de lado o inclinados.



No.	Arnes	Amarre 1	2	3	4	5	6	7	8	9
1	A09 - P2		●							
2	Panel - Placa "LD"	●	●							
3	P4 - LD4			●						
4	A10 - KA10								●	●
5	A11 - SP(L)								●	
6	A11 - SP(R)				●	●	●	●		
7	Cable AC									

10 Lista de Partes de Reemplazo

10.1 Notas de Reemplazo de Lista de Partes

Aviso Importante de Seguridad

Los componentes identificados por una marca S: material de seguridad, tendrán características especiales importantes para seguridad. Cuando reemplace alguno de estos componentes, use las partes especificadas por el fabricante.

1. Resistor
   Ejemplo:
   ERD25J104T C 100kΩ , J, 1/4W
   Tipo Tolerancia

Tipo	Tolerancia
C: Carbón	F: ± 1%
F: Fusible	G: ± 2%
M: Oxido Metálico	J: ± 5%
S: Sólido	K: ± 10%
W: Alambre Enrollado	M: ± 20%

2. Capacitor
   Ejemplo:
   ECKF1H103ZF C 0.01MF, Z, 50V
   Tipo Tolerancia

Tipo	Tolerancia
C: Carbón	C: ± 0.25pF
E: Electrolítico	D: ± 0.5pF
P: Poliester Polipropileno	F: ± 1pF G: ± 3%
T: Tantalio	J: ± 5%
	K: ± 10%
	L: ± 15%
	M: ±20%
	P: ±100%, -0%
	Z: ± 80%, -20%

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

CAPACITORES

Posición	Cantidad	Clave	Descripción	S	Comentarios
C5613	1	EEEHB0J221UP	C 220PF, J, 6.3V		
C3058	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3059	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3159	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3160	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3161	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4170	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4180	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4546	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4548	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4812	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4813	1	F1G1A105A047	Chip 1 µF, J, 10V		
C5021	1	F1G1A105A047	Chip 1 µF, J, 10V		
C5022	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8014	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8015	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8305	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8306	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8307	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8308	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8309	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8310	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8311	1	F1G1A105A047	Chip 1 µF, J, 10V		
C5171	1	F1G1C1030008	C 0.010µF, K, 16V		
C2009	1	F1G1C104A077	C 0.10µF, K, 16V		
C2750	1	F1G1C104A077	C 0.10µF, K, 16V		
C3024	1	F1G1C104A077	C 0.10µF, K, 16V		
C3036	1	F1G1C104A077	C 0.10µF, K, 16V		
C3045	1	F1G1C104A077	C 0.10µF, K, 16V		
C3080	1	F1G1C104A077	C 0.10µF, K, 16V		
C3146	1	F1G1C104A077	C 0.10µF, K, 16V		
C3158	1	F1G1C104A077	C 0.10µF, K, 16V		
C4122	1	F1G1C104A077	C 0.10µF, K, 16V		
C4123	1	F1G1C104A077	C 0.10µF, K, 16V		
C4124	1	F1G1C104A077	C 0.10µF, K, 16V		
C4125	1	F1G1C104A077	C 0.10µF, K, 16V		
C4126	1	F1G1C104A077	C 0.10µF, K, 16V		
C4127	1	F1G1C104A077	C 0.10µF, K, 16V		
C4129	1	F1G1C104A077	C 0.10µF, K, 16V		
C4130	1	F1G1C104A077	C 0.10µF, K, 16V		

Posición	Cantitdad	Clave	Descripción	S	Comentarios
C4131	1	F1G1C104A077	C 0.10µF, K, 16V		
C4132	1	F1G1C104A077	C 0.10µF, K, 16V		
C4133	1	F1G1C104A077	C 0.10µF, K, 16V		
C4151	1	F1G1C104A077	C 0.10µF, K, 16V		
C4809	1	F1G1C104A077	C 0.10µF, K, 16V		
C4810	1	F1G1C104A077	C 0.10µF, K, 16V		
C4811	1	F1G1C104A077	C 0.10µF, K, 16V		
C5020	1	F1G1C104A077	C 0.10µF, K, 16V		
C5616	1	F1G1C104A077	C 0.10µF, K, 16V		
C5625	1	F1G1C104A077	C 0.10µF, K, 16V		
C8004	1	F1G1C104A077	C 0.10µF, K, 16V		
C8005	1	F1G1C104A077	C 0.10µF, K, 16V		
C8006	1	F1G1C104A077	C 0.10µF, K, 16V		
C8011	1	F1G1C104A077	C 0.10µF, K, 16V		
C8016	1	F1G1C104A077	C 0.10µF, K, 16V		
C8023	1	F1G1C104A077	C 0.10µF, K, 16V		
C8028	1	F1G1C104A077	C 0.10µF, K, 16V		
C8029	1	F1G1C104A077	C 0.10µF, K, 16V		
C8031	1	F1G1C104A077	C 0.10µF, K, 16V		
C8034	1	F1G1C104A077	C 0.10µF, K, 16V		
C8035	1	F1G1C104A077	C 0.10µF, K, 16V		
C8041	1	F1G1C104A077	C 0.10µF, K, 16V		
C8044	1	F1G1C104A077	C 0.10µF, K, 16V		
C8046	1	F1G1C104A077	C 0.10µF, K, 16V		
C8047	1	F1G1C104A077	C 0.10µF, K, 16V		
C8050	1	F1G1C104A077	C 0.10µF, K, 16V		
C8051	1	F1G1C104A077	C 0.10µF, K, 16V		
C8053	1	F1G1C104A077	C 0.10µF, K, 16V		
C8054	1	F1G1C104A077	C 0.10µF, K, 16V		
C8108	1	F1G1C104A077	C 0.10µF, K, 16V		
C8110	1	F1G1C104A077	C 0.10µF, K, 16V		
C8200	1	F1G1C104A077	C 0.10µF, K, 16V		
C8203	1	F1G1C104A077	C 0.10µF, K, 16V		
C8204	1	F1G1C104A077	C 0.10µF, K, 16V		
C8205	1	F1G1C104A077	C 0.10µF, K, 16V		
C8206	1	F1G1C104A077	C 0.10µF, K, 16V		
C8208	1	F1G1C104A077	C 0.10µF, K, 16V		
C8210	1	F1G1C104A077	C 0.10µF, K, 16V		
C8212	1	F1G1C104A077	C 0.10µF, K, 16V		
C8215	1	F1G1C104A077	C 0.10µF, K, 16V		
C8218	1	F1G1C104A077	C 0.10µF, K, 16V		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

C8220	1	F1G1C104A077	C 0.10µF, K, 16V		
C8221	1	F1G1C104A077	C 0.10µF, K, 16V		
C8224	1	F1G1C104A077	C 0.10µF, K, 16V		
C8225	1	F1G1C104A077	C 0.10µF, K, 16V		
C8302	1	F1G1C104A077	C 0.10µF, K, 16V		
C8303	1	F1G1C104A077	C 0.10µF, K, 16V		
C8304	1	F1G1C104A077	C 0.10µF, K, 16V		
C8604	1	F1G1C104A077	C 0.10µF, K, 16V		
C8605	1	F1G1C104A077	C 0.10µF, K, 16V		
C8609	1	F1G1C104A077	C 0.10µF, K, 16V		
C8611	1	F1G1C104A077	C 0.10µF, K, 16V		
C8617	1	F1G1C104A077	C 0.10µF, K, 16V		
C8619	1	F1G1C104A077	C 0.10µF, K, 16V		
C8620	1	F1G1C104A077	C 0.10µF, K, 16V		
C8627	1	F1G1C104A077	C 0.10µF, K, 16V		
C8644	1	F1G1C104A077	C 0.10µF, K, 16V		
C8716	1	F1G1C104A077	C 0.10µF, K, 16V		
C8717	1	F1G1C104A077	C 0.10µF, K, 16V		
C8900	1	F1G1C104A077	C 0.10µF, K, 16V		
C8901	1	F1G1C104A077	C 0.10µF, K, 16V		
C8902	1	F1G1C104A077	C 0.10µF, K, 16V		
C8903	1	F1G1C104A077	C 0.10µF, K, 16V		
C8106	1	F1G1C223A081	Surface mounting multilayer ceramic capa		
C8711	1	F1G1C223A081	Surface mounting multilayer ceramic capa		
C8769	1	F1G1C223A081	Surface mounting multilayer ceramic capa		
C1000	1	F1G1E1030005	C 0.01 µF K, 25V		
C2001	1	F1G1E1030005	C 0.01 µF K, 25V		
C8700	1	F1G1E1030005	C 0.01 µF K, 25V		
C8705	1	F1G1E1030005	C 0.01 µF K, 25V		
C8707	1	F1G1E1030005	C 0.01 µF K, 25V		
C8712	1	F1G1E272A123	C 2700pF, K, 25V		
C4173	1	F1G1E472A086	C 4700pF K, 25V		
C4179	1	F1G1E472A086	C 4700pF K, 25V		
C8100	1	F1G1E682A123	C 6800pF K, 25V		
C8607	1	F1G1H100A565	C 10pF K, 50V		
C8608	1	F1G1H100A565	C 10pF K, 50V		
C1955	1	F1G1H101A565	C 100pF K, 50V		
C2775	1	F1G1H101A565	C 100pF K, 50V		
C4814	1	F1G1H101A565	C 100pF K, 50V		
C8027	1	F1G1H101A565	C 100pF K, 50V		
C8030	1	F1G1H101A565	C 100pF K, 50V		
C8045	1	F1G1H101A565	C 100pF K, 50V		

C2003	1	F1G1H1020008	C 1000pF, K, 50V		
C2751	1	F1G1H1020008	C 1000pF, K, 50V		
C2752	1	F1G1H1020008	C 1000pF, K, 50V		
C2753	1	F1G1H1020008	C 1000pF, K, 50V		
C2754	1	F1G1H1020008	C 1000pF, K, 50V		
C2755	1	F1G1H1020008	C 1000pF, K, 50V		
C4801	1	F1G1H1020008	C 1000pF, K, 50V		
C4803	1	F1G1H1020008	C 1000pF, K, 50V		
C4805	1	F1G1H1020008	C 1000pF, K, 50V		
C4934	1	F1G1H1020008	C 1000pF, K, 50V		
C4935	1	F1G1H1020008	C 1000pF, K, 50V		
C4936	1	F1G1H1020008	C 1000pF, K, 50V		
C4937	1	F1G1H1020008	C 1000pF, K, 50V		
C8008	1	F1G1H1020008	C 1000pF, K, 50V		
C8013	1	F1G1H1020008	C 1000pF, K, 50V		
C8038	1	F1G1H1020008	C 1000pF, K, 50V		
C8055	1	F1G1H1020008	C 1000pF, K, 50V		
C4800	1	F1G1H220A565	C 22pF, K, 50V		
C8602	1	F1G1H390A565	C 39pF, K, 50V		
C8629	1	F1G1H390A565	C 39pF, K, 50V		
C4174	1	F1G1H560A565	C 56pF, K, 50V		
C3099	1	F1G1H5610004	C 560pF, K, 50V		
C3100	1	F1G1H5610004	C 560pF, K, 50V		
C3153	1	F1G1H5610004	C 560pF, K, 50V		Solo TC-L32X35L
C3154	1	F1G1H5610004	C 560pF, K, 50V		Solo TC-L32X35L
C3167	1	F1G1H5610004	C 560pF, K, 50V		
C3168	1	F1G1H5610004	C 560pF, K, 50V		
C8300	1	F1G1H6R0A732	C 6pF, C, 50V		
C8301	1	F1G1H7R0A732	C 7pF, C, 50V		
C3107	1	F1H1A105A025	C 1µF, K, 6.3V		
C3110	1	F1H1A105A025	C 1µF, K, 6.3V		
C3169	1	F1H1A105A025	C 1µF, K, 6.3V		
C3170	1	F1H1A105A025	C 1µF, K, 6.3V		
C5000	1	F1H1A105A025	C 1µF, K, 6.3V		
C5002	1	F1H1A105A025	C 1µF, K, 6.3V		
C5004	1	F1H1A105A025	C 1µF, K, 6.3V		
C5012	1	F1H1A105A025	C 1µF, K, 6.3V		
C5476	1	F1H1A105A025	C 1µF, K, 6.3V		
C5477	1	F1H1A105A025	C 1µF, K, 6.3V		
C8764	1	F1H1A105A025	C 1µF, K, 6.3V		
C8765	1	F1H1A105A025	C 1µF, K, 6.3V		
C4134	1	F1H1C105A145	C 1µF, K, 6.3V		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

C5026	1	F1H1C105A145	C 1µF, K, 6.3V		
C8104	1	F1H1C105A145	C 1µF, K, 6.3V		
C1951	1	F1H1H102A831	C 1000pF, K, 50V		
C4205	1	F1H1H103A219	C 0.01µF, K, 50V		
C5151	1	F1H1H103A219	C 0.01µF, K, 50V		
C4120	1	F1H1H104A970	C 0.1µF, K, 50V		
C4121	1	F1H1H104A970	C 0.1µF, K, 50V		
C4153	1	F1H1H104A970	C 0.1µF, K, 50V		
C4154	1	F1H1H104A970	C 0.1µF, K, 50V		
C4158	1	F1H1H104A970	C 0.1µF, K, 50V		
C4160	1	F1H1H104A970	C 0.1µF, K, 50V		
C4162	1	F1H1H104A970	C 0.1µF, K, 50V		
C4169	1	F1H1H104A970	C 0.1µF, K, 50V		
C4171	1	F1H1H104A970	C 0.1µF, K, 50V		
C4911	1	F1H1H104A970	C 0.1µF, K, 50V		
C4913	1	F1H1H104A970	C 0.1µF, K, 50V		
C4915	1	F1H1H104A970	C 0.1µF, K, 50V		
C4917	1	F1H1H104A970	C 0.1µF, K, 50V		
C4926	1	F1H1H223A219	C 0.022µF, K, 50V		
C4927	1	F1H1H223A219	C 0.022µF, K, 50V		
C4928	1	F1H1H223A219	C 0.022µF, K, 50V		
C4929	1	F1H1H223A219	C 0.022µF, K, 50V		
C4930	1	F1H1H223A219	C 0.022µF, K, 50V		
C4931	1	F1H1H223A219	C 0.022µF, K, 50V		
C4932	1	F1H1H223A219	C 0.022µF, K, 50V		
C4933	1	F1H1H223A219	C 0.022µF, K, 50V		
C4155	1	F1H1H473A918	C 0.047µF, K, 50V		
C4156	1	F1H1H473A918	C 0.047µF, K, 50V		
C4157	1	F1H1H473A918	C 0.047µF, K, 50V		
C4159	1	F1H1H473A918	C 0.047µF, K, 50V		
C8026	1	F1J0G2260001	C 22µF, K, 4V		
C8120	1	F1J0G2260001	C 22µF, K, 4V		
C8122	1	F1J0G2260001	C 22µF, K, 4V		
C8124	1	F1J0G2260001	C 22µF, K, 4V		
C8126	1	F1J0G2260001	C 22µF, K, 4V		
C8128	1	F1J0G2260001	C 22µF, K, 4V		
C1953	1	F1J0J106A004	C 10µF, K, 6.3V		
C1954	1	F1J0J106A004	C 10µF, K, 6.3V		
C3008	1	F1J1A106A043	C 10µF, K, 6.3V		
C3057	1	F1J1A106A043	C 10µF, K, 6.3V		
C3077	1	F1J1A106A043	C 10µF, K, 6.3V		
C3081	1	F1J1A106A043	C 10µF, K, 6.3V		Solo TC-L32X35L

C4802	1	F1J1A106A043	C 10µF, K, 6.3V		
C4804	1	F1J1A106A043	C 10µF, K, 6.3V		
C4806	1	F1J1A106A043	C 10µF, K, 6.3V		
C8702	1	F1J1A106A043	C 10µF, K, 6.3V		
C8703	1	F1J1A106A043	C 10µF, K, 6.3V		
C8708	1	F1J1A106A043	C 10µF, K, 6.3V		
C8709	1	F1J1A106A043	C 10µF, K, 6.3V		
C8710	1	F1J1A106A043	C 10µF, K, 6.3V		
C8772	1	F1J1A106A043	C 10µF, K, 6.3V		
C8773	1	F1J1A106A043	C 10µF, K, 6.3V		
C3093	1	F1J1A106A087	C 10µF, K, 6.3V		
C3095	1	F1J1A106A087	C 10µF, K, 6.3V		
C3097	1	F1J1A106A087	C 10µF, K, 6.3V		
C3098	1	F1J1A106A087	C 10µF, K, 6.3V		
C3162	1	F1J1A106A087	C 10µF, K, 6.3V		Solo TC-L32X35L
C3163	1	F1J1A106A087	C 10µF, K, 6.3V		Solo TC-L32X35L
C3164	1	F1J1A106A087	C 10µF, K, 6.3V		Solo TC-L32X35L
C3165	1	F1J1A106A087	C 10µF, K, 6.3V		Solo TC-L32X35L
C3171	1	F1J1A106A087	C 10µF, K, 6.3V		
C3172	1	F1J1A106A087	C 10µF, K, 6.3V		
C3173	1	F1J1A106A087	C 10µF, K, 6.3V		
C4128	1	F1J1A106A087	C 10µF, K, 6.3V		
C4202	1	F1J1A106A087	C 10µF, K, 6.3V		
C4206	1	F1J1A106A087	C 10µF, K, 6.3V		
C4970	1	F1J1A106A087	C 10µF, K, 6.3V		
C4971	1	F1J1A106A087	C 10µF, K, 6.3V		
C5624	1	F1J1A106A087	C 10µF, K, 6.3V		
C8001	1	F1J1A106A087	C 10µF, K, 6.3V		
C8009	1	F1J1A106A087	C 10µF, K, 6.3V		
C8019	1	F1J1A106A087	C 10µF, K, 6.3V		
C8024	1	F1J1A106A087	C 10µF, K, 6.3V		
C8025	1	F1J1A106A087	C 10µF, K, 6.3V		
C8037	1	F1J1A106A087	C 10µF, K, 6.3V		
C8039	1	F1J1A106A087	C 10µF, K, 6.3V		
C8042	1	F1J1A106A087	C 10µF, K, 6.3V		
C8207	1	F1J1A106A087	C 10µF, K, 6.3V		
C8216	1	F1J1A106A087	C 10µF, K, 6.3V		
C8603	1	F1J1A106A087	C 10µF, K, 6.3V		
C8615	1	F1J1A106A087	C 10µF, K, 6.3V		
C8616	1	F1J1A106A087	C 10µF, K, 6.3V		
C8628	1	F1J1A106A087	C 10µF, K, 6.3V		
C8715	1	F1J1A106A087	C 10µF, K, 6.3V		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

C8102	1	F1J1A475A087	C 4.7µF, K, 10V		
C8714	1	F1J1A475A087	C 4.7µF, K, 10V		
C4175	1	F1J1C475A170	C 4.7µF, K, 10V		
C4176	1	F1J1C475A170	C 4.7µF, K, 10V		
C4177	1	F1J1C475A170	C 4.7µF, K, 10V		
C4178	1	F1J1C475A170	C 4.7µF, K, 10V		
C4201	1	F1J1C475A217	C 4.7µF, K, 10V		
C4152	1	F1J1E105A231	C 1µF, K, 25V		
C4161	1	F1J1E105A231	C 1µF, K, 25V		
C4909	1	F1J1E105A231	C 1µF, K, 25V		
C4912	1	F1J1E105A231	C 1µF, K, 25V		
C4914	1	F1J1E105A231	C 1µF, K, 25V		
C4918	1	F1J1E105A231	C 1µF, K, 25V		
C5006	1	F1J1E105A231	C 1µF, K, 25V		
C4921	1	F1J1E4740001	C 4.7µF, K, 25V		
C4922	1	F1J1E4740001	C 4.7µF, K, 25V		
C4924	1	F1J1E4740001	C 4.7µF, K, 25V		
C4925	1	F1J1E4740001	C 4.7µF, K, 25V		
C4150	1	F1J1E475A267	C 4.7µF, K, 25V		
C4181	1	F1J1E475A267	C 4.7µF, K, 25V		
C4182	1	F1J1E475A267	C 4.7µF, K, 25V		
C4187	1	F1K0J1060017	C 10µF, K, 6.3V		
C4188	1	F1K0J1060017	C 10µF, K, 6.3V		
C2008	1	F1K1E106A136	C 10µF, M, 16V		
C4163	1	F1K1E106A136	C 10µF, M, 16V		
C4164	1	F1K1E106A136	C 10µF, M, 16V		
C4907	1	F1K1E106A136	C 10µF, M, 16V		
C4910	1	F1K1E106A136	C 10µF, M, 16V		
C4916	1	F1K1E106A136	C 10µF, M, 16V		
C4976	1	F1K1E106A136	C 10µF, M, 16V		
C4977	1	F1K1E106A136	C 10µF, M, 16V		
C8112	1	F1K1E106A136	C 10µF, M, 16V		
C8114	1	F1K1E106A136	C 10µF, M, 16V		
C8116	1	F1K1E106A136	C 10µF, M, 16V		
C8118	1	F1K1E106A136	C 10µF, M, 16V		
C8721	1	F1K1E106A136	C 10µF, M, 16V		
C8722	1	F1K1E106A136	C 10µF, M, 16V		
C8723	1	F1K1E106A136	C 10µF, M, 16V		
C8724	1	F1K1E106A136	C 10µF, M, 16V		
C4165	1	F1K1E225A085	C 2.2µF, K, 25V		
C4166	1	F1K1E225A085	C 2.2µF, K, 25V		
C4167	1	F1K1E225A085	C 2.2µF, K, 25V		
C4168	1	F1K1E225A085	C 2.2µF, K, 25V		
C3043	1	F2H1A101A040	C 100µF, M, 10V		Solo TC-L32X35L
C3044	1	F2H1A101A040	C 100µF, M, 10V		Solo TC-L32X35L
C3105	1	F2H1A101A040	C 100µF, M, 10V		

DIODOS

Posición	Cantidad	Clave	Descripción	S	Comentarios
D4165	1	B0BC01000035	Voltage regulation diodes		
D4173	1	B0BC17000001	Voltage regulation diodes		
D4169	1	B0BC4R700007	Voltage regulation diodes		
D4704	1	B0JCCD000020	Schottky barrier diodes		
D4721	1	B0JCCD000020	Schottky barrier diodes		
D4772	1	B0JCCD000020	Schottky barrier diodes		
D1000	1	B0JCCE000021	Schottky barrier diodes		
D1951	1	B0JCCE000021	Schottky barrier diodes		
D1955	1	B0JCCE000021	Schottky barrier diodes		
D4773	1	B0JCCE000021	Schottky barrier diodes		
D5480	1	B0JCCE000021	Schottky barrier diodes		
D4150	1	B0JCDE000006	Schottky barrier diodes		
D4152	1	B0JCDE000006	Schottky barrier diodes		
D4153	1	B0JCDE000006	Schottky barrier diodes		
D4154	1	B0JCDE000006	Schottky barrier diodes		
D4159	1	B0JCDE000006	Schottky barrier diodes		
D4160	1	B0JCDE000006	Schottky barrier diodes		
D4161	1	B0JCDE000006	Schottky barrier diodes		
D4162	1	B0JCDE000006	Schottky barrier diodes		
D4172	1	B0JCPE000004	Schottky barrier diodes		
D4151	1	B0JDCE000017	Schottky barrier diodes		
D1952	1	DA2J10100L	Switching diodes		
D1953	1	DA2J10100L	Switching diodes		
D1954	1	DA2J10100L	Switching diodes		
D4001	1	DA2J10100L	Switching diodes		
D4156	1	DA2J10100L	Switching diodes		
D4157	1	DA2J10100L	Switching diodes		
D4166	1	DA2J10100L	Switching diodes		
D4167	1	DA2J10100L	Switching diodes		
D4168	1	DA2J10100L	Switching diodes		
D4171	1	DA2J10100L	Switching diodes		
D4175	1	DA2J10100L	Switching diodes		
D5173	1	DA2J10100L	Switching diodes		
D5175	1	DA2J10100L	Switching diodes		
D8716	1	DA2J10100L	Switching diodes		
D5180	1	DZ2J033M0L	Voltage regulation diodes		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

D4170	1	DZ2J047M0L	Voltage regulation diodes		
D5174	1	DZ2J110M0L	Voltage regulation diodes		
D5172	1	DZ2J180M0L	Voltage regulation diodes		
D4163	1	DZ2J200M0L	Voltage regulation diodes		
D4174	1	DZ2J220M0L	Voltage regulation diodes		
D4155	1	DZ2J330M0L	Voltage regulation diodes		
D0910	1	EZAEG2A50AX	Other filters		
D0911	1	EZAEG2A50AX	Other filters		
D0914	1	EZAEG2A50AX	Other filters		
D2001	1	EZJZ0V120JA	Varistors		
D2005	1	EZJZ0V120JA	Varistors		
D3050	1	K7AAAY000006	Optical links		

CIRCUITOS INTEGRADOS

Posición	Cantidad	Clave	Descripción	S	Comentarios
IC5000	1	AN34043A-VF	ICs for video / audio		
IC8702	1	C0DBAFG00029	ICs for power supply		
IC8100	1	C0DBAYY00715	ICs for power supply		
IC4150	1	C0DBAYY00868	ICs for power supply		
IC8700	1	C0DBAYY00915	ICs for power supply		
IC8701	1	C0DBAYY00915	ICs for power supply		
IC5416	1	C0DBGYY00281	ICs for power supply		
IC8706	1	C0DBGYY00887	ICs for power supply		
IC5602	1	C0DBZYY00368	ICs for power supply		
IC1951	1	C0EBF0000354	Voltage detecting ICs (Reset ICs)		
IC4120	1	C0FBBY000086	A/D converters, D/A converters		
IC3001	1	C1AB00003385	ICs for video / audio		
IC4900	1	C1AB00003705	ICs for video / audio		
IC8601	1	C1CB00003491	ICs for information / communication		
IC8200	1	C3ABTY000043	DRAM		
IC8201	1	C3ABTY000043	DRAM		
IC8000	1	MN2WS0175D	ICs for video / audio		
IC8900	1	TVRS002AH	FLASH memories		Solo TC-L32X35X/M
IC8900	1	TVRS258AE	FLASH memories		Solo TC-L32X35L
IC8901	1	TVRS388	EEPROM		Solo TC-L32X35X/M
IC8902	1	TVRS389AA	EEPROM		Solo TC-LX35X
IC8901	1	TVRS390	EEPROM		Solo TC-L32X35L
IC8902	1	TVRS391AA	EEPROM		Solo TC-L32X35L
IC8902	1	TVRS551AA	EEPROM		Solo TC-LX35M

BOBINAS

Posición	Cantidad	Clave	Descripción	S	Comentarios
FL4002	1	EXC28CE201U	Filter for EMI / EMC (Beads cores)		
FL4003	1	EXC28CE201U	Filter for EMI / EMC (Beads cores)		
FL4006	1	EXC28CE201U	Filter for EMI / EMC		
FL4007	1	EXC28CE201U	Filter for EMI / EMC		
L3006	1	G1C100MA0072	Surface mounting inductors		
L8700	1	G1C100MA0416	Surface mounting inductors		
L4151	1	G1C100MA0426	Surface mounting inductors		
L4900	1	G1C150MA0426	Surface mounting inductors		
L4901	1	G1C150MA0426	Surface mounting inductors		
L4902	1	G1C150MA0426	Surface mounting inductors		
L4903	1	G1C150MA0426	Surface mounting inductors		
L4153	1	G1C220MA0234	Surface mounting inductors		
L8102	1	G1C3R3MA0425	Surface mounting inductors		
L8100	1	G1C4R7MA0416	Surface mounting inductors		
L8701	1	G1C4R7MA0416	Surface mounting inductors		
L4803	1	G1CR39J00009	Surface mounting inductors		
L4804	1	G1CR39J00009	Surface mounting inductors		
R8636	1	J0JBC0000098	Filter for EMI / EMC		
L8603	1	J0JBC0000115	Filter for EMI / EMC		
L8604	1	J0JBC0000115	Filter for EMI / EMC		
L4805	1	J0JCC0000278	Filter for EMI / EMC		
L3000	1	J0JCC0000287	Filter for EMI / EMC		
L3001	1	J0JCC0000287	Filter for EMI / EMC		
L3002	1	J0JCC0000287	Filter for EMI / EMC		
L3119	1	J0JCC0000287	Filter for EMI / EMC		Solo TC-L32X35L
L3120	1	J0JCC0000287	Filter for EMI / EMC		Solo TC-L32X35L
L3122	1	J0JCC0000287	Filter for EMI / EMC		
L3123	1	J0JCC0000287	Filter for EMI / EMC		
L8003	1	J0JCC0000287	Filter for EMI / EMC		
L8015	1	J0JCC0000287	Filter for EMI / EMC		
L8016	1	J0JCC0000287	Filter for EMI / EMC		
L4800	1	J0JGC0000020	Filter for EMI / EMC		
L4801	1	J0JGC0000020	Filter for EMI / EMC		
L4802	1	J0JGC0000020	Filter for EMI / EMC		
L5601	1	J0JHC0000045	Filter for EMI / EMC		
L8005	1	J0JHC0000045	Filter for EMI / EMC		
L8006	1	J0JHC0000045	Filter for EMI / EMC		
L8007	1	J0JHC0000045	Filter for EMI / EMC		
L8600	1	J0JHC0000045	Filter for EMI / EMC		
L4150	1	J0JHC0000046	Filter for EMI / EMC		
L4200	1	J0JHC0000046	Filter for EMI / EMC		
L4152	1	J0JHC0000077	Filter for EMI / EMC		
L2310	1	J0JHC0000078	Filter for EMI / EMC		
L2311	1	J0JHC0000078	Filter for EMI / EMC		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

L2312	1	J0JHC0000078	Filter for EMI / EMC		
L2313	1	J0JHC0000078	Filter for EMI / EMC		
L8009	1	J0JKC0000021	Filter for EMI / EMC		
L2001	1	J0JYC0000065	Filter for EMI / EMC		
L2750	1	J0JYC0000065	Filter for EMI / EMC		
L2751	1	J0JYC0000065	Filter for EMI / EMC		
L2754	1	J0JYC0000065	Filter for EMI / EMC		
L4700	1	J0JYC0000068	Filter for EMI / EMC		
L4701	1	J0JYC0000068	Filter for EMI / EMC		
L4703	1	J0JYC0000068	Filter for EMI / EMC		
L4704	1	J0JYC0000068	Filter for EMI / EMC		
L4705	1	J0JYC0000068	Filter for EMI / EMC		
L4706	1	J0JYC0000068	Filter for EMI / EMC		
L5603	1	J0ZZB0000142	Other filters		
L5605	1	J0ZZB0000142	Other filters		

TRANSISTORES

Posición	Cantidad	Clave	Descripción	S	Comentarios
Q2001	1	B1ABBE000003	Silicon transistors		
Q4974	1	B1ABBE000003	Silicon transistors		
Q3104	1	B1ABCE000015	Silicon transistors		Solo TC-L32X35L
Q3105	1	B1ABCE000015	Silicon transistors		Solo TC-L32X35L
Q4153	1	B1ABCE000015	Silicon transistors		
Q4700	1	B1ABCE000015	Silicon transistors		
Q4702	1	B1ABCE000015	Silicon transistors		
Q4709	1	B1ABCE000015	Silicon transistors		
Q0900	1	B1ADCF000194	Silicon transistors		
Q1951	1	B1ADCF000194	Silicon transistors		
Q4513	1	B1ADCF000194	Silicon transistors		
Q2002	1	B1ADGJ000008	Silicon transistors		
Q4154	1	B1CFQD000001	Silicon transistors		
Q4514	1	B1HFCEA00001	Silicon transistors		
Q8100	1	B1MBEDA00027	Silicon transistors		
Q8102	1	B1MBEDA00027	Silicon transistors		
Q4151	1	DSA500100L	Silicon transistors		
Q4152	1	DSA500100L	Silicon transistors		
Q4150	1	DSC500100L	Silicon transistors		
PA4150	1	K5H1622A0031	Surface mounting fuses		

RESISTENCIAS

Posición	Cantidad	Clave	Descripción	S	Comentarios
R4125	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4126	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4127	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4128	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4910	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4911	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4912	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R0944	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R1961	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R1963	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R2006	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R2009	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R3070	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R3190	1	D0GA101JA015	CHIP 100 OHM, 1/16W		Solo TC-L32X35L
R3191	1	D0GA101JA015	CHIP 100 OHM, 1/16W		Solo TC-L32X35L
R8616	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8617	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8660	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8661	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8662	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8663	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8664	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8665	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8666	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8668	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8669	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8670	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8671	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8672	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8673	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8674	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8675	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R8676	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R0945	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R0952	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R1005	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4182	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4202	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4554	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4711	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4724	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4797	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R8861	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R8863	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R8871	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R8872	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R1304	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1306	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1953	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1958	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R3931	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4024	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4168	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4169	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4170	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4173	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4556	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4563	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4702	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4708	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4709	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4715	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4721	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4722	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4788	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4794	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4795	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4807	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4913	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4921	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4985	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5003	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5030	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5104	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5181	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5606	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5607	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5609	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8221	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8639	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8640	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8858	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8859	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8860	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8910	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1952	1	D0GA104JA023	CHIP 100k OHM, 1/16W		
R3128	1	D0GA104JA023	CHIP 100k OHM, 1/16W		Solo TC-L32X35L
R3184	1	D0GA104JA023	CHIP 100k OHM, 1/16W		Solo TC-L32X35L
R3185	1	D0GA104JA023	CHIP 100k OHM, 1/16W		Solo TC-L32X35L
R8755	1	D0GA104JA023	CHIP 100k OHM, 1/16W		
R8615	1	D0GA105JA023	CHIP 1 MOHM, 1/16W		
R3002	1	D0GA122JA023	CHIP 1.2 KOHM, 1/16W		
R4549	1	D0GA151JA023	CHIP 150 OHM, 1/16W		
R4550	1	D0GA151JA023	CHIP 150 OHM, 1/16W		
R4551	1	D0GA151JA023	CHIP 150 OHM, 1/16W		
R2024	1	D0GA152JA023	CHIP 1500 OHM, 1/16W		
R5179	1	D0GA153JA023	CHIP 15K OHM, 1/16W		
R1006	1	D0GA182JA023	CHIP 1.8K OHM, 1/16W		
R8118	1	D0GA183JA023	CHIP 18K OHM, 1/16W		
R0918	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0919	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0920	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0921	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0922	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0923	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0924	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0925	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0928	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0929	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0930	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0931	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0932	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0933	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R4548	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R4739	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R3012	1	D0GA221JA023	CHIP 220 OHM, 1/16W		Solo TC-L32X35L
R3013	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R3054	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R3057	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R3058	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R3201	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R3202	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R8217	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R8218	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R8610	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R2012	1	D0GA222JA023	CHIP 2.2K OHM, 1/16W		
R5152	1	D0GA222JA023	CHIP 2.2K OHM, 1/16W		
R8909	1	D0GA222JA023	CHIP 2.2K OHM, 1/16W		
R4123	1	D0GA223JA023	CHIP 22K OHM, 1/16W		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R4166	1	D0GA223JA023	CHIP 22K OHM, 1/16W		
R5007	1	D0GA223JA023	CHIP 22K OHM, 1/16W		
R8114	1	D0GA243JA023	CHIP 24K OHM, 1/16W		
R8306	1	D0GA243JA023	CHIP 24K OHM, 1/16W		
R0900	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0901	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0902	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0903	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0904	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0905	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0906	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0907	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R8608	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R4798	1	D0GA273JA023	CHIP 27K OHM, 1/16W		
R1000	1	D0GA331JA023	CHIP 330 OHM, 1/16W		
R3194	1	D0GA331JA023	CHIP 330 OHM, 1/16W		Solo TC-L32X35L
R3195	1	D0GA331JA023	CHIP 330 OHM, 1/16W		Solo TC-L32X35L
R8001	1	D0GA331JA023	CHIP 330 OHM, 1/16W		
R3055	1	D0GA333JA023	CHIP 33 K OHM, 1/16W		
R3056	1	D0GA333JA023	CHIP 33 K OHM, 1/16W		
R3199	1	D0GA333JA023	CHIP 33 K OHM, 1/16W		
R3200	1	D0GA333JA023	CHIP 33 K OHM, 1/16W		
R8302	1	D0GA360JA023	CHIP 36 OHM, 1/16W		
R8303	1	D0GA360JA023	CHIP 36 OHM, 1/16W		
R8702	1	D0GA390JA023	CHIP 39 OHM, 1/16W		
R8706	1	D0GA390JA023	CHIP 39 OHM, 1/16W		
R0800	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R2021	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R3101	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R3102	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R8606	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R8607	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R8914	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R0911	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R0951	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R1956	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2018	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2019	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2022	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2023	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2816	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R3960	1	D0GA473JA015	CHIP 47k OHM, 1/16W		

R4124	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4167	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4560	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4984	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R8866	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4552	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R8624	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R8625	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R8626	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R8627	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R8628	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R1959	1	D0GA561JA023	CHIP 560 OHM, 1/16W		
R5006	1	D0GA563JA023	CHIP 56 KOHM, 1/16W		
R1960	1	D0GA564JA023	CHIP 560 KOHM, 1/16W		
R1962	1	D0GA564JA023	CHIP 560 KOHM, 1/16W		
R0934	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0935	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0936	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0937	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0938	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0939	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0940	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0941	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0942	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0943	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0947	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0948	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0949	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0962	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0963	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0964	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0965	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0966	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0967	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R1951	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R3126	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R3933	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R5175	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R8301	1	D0GA681JA023	CHIP 680 OHM, 1/16W		
R1954	1	D0GA683JA023	CHIP 68 K OHM, 1/16W		
R5002	1	D0GA683JA023	CHIP 68 K OHM, 1/16W		
R5180	1	D0GA683JA023	CHIP 68 K OHM, 1/16W		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R3192	1	D0GA820JA023	CHIP 82 OHM, 1/16W		
R3193	1	D0GA820JA023	CHIP 82 OHM, 1/16W		
R3196	1	D0GA820JA023	CHIP 82 OHM, 1/16W		
R8629	1	D0GA820JA023	CHIP 82 OHM, 1/16W		
JS0018	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
JS0039	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		Solo TC-L32X35X/M
JS0023	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		Solo TC-L32X35L
R2004	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R2020	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R2772	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3148	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		Solo TC-L32X35X/M
R3224	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3225	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3226	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3227	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3228	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3242	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R4001	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R4120	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R4558	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R4805	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R4806	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R5173	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R5176	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R5178	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R6940	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R6956	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R6957	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8592	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8641	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8667	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8709	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8710	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8767	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8108	1	D0GB100JA065	CHIP 10 OHM, 1/16W		
R8110	1	D0GB100JA065	CHIP 10 OHM, 1/16W		
R4189	1	D0GBR00J0004	CHIP 0 OHM, 1/10W		
R8642	1	D0GBR00J0004	CHIP 0 OHM, 1/10W		
R4158	1	D0GD271JA052	CHIP 270 OHM, 1/8W		
R4150	1	D0GD391JA052	CHIP 390 OHM, 1/8W		
R2752	1	D0GDR00J0004	CHIP 0 OHM, 1/10W		
R2753	1	D0GDR00J0004	CHIP 0 OHM, 1/10W		

R4915	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4916	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4917	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4918	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4919	1	D0GFR00J0005	CHIP 0 OHM, 1/10W		
R4157	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8203	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8204	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8205	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8206	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8207	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8208	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8224	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8225	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R4154	1	D1BA1002A014	CHIP 10K OHM, 1/16W		
R4155	1	D1BA1002A014	CHIP 10K OHM, 1/16W		
R4172	1	D1BA1203A014	CHIP 120 OHM, 1/16W		
R4181	1	D1BA1302A014	CHIP 13k OHM, 1/16W		
R4153	1	D1BA20010002	CHIP 2.2k OHM, 1/16W		
R4151	1	D1BA2201A014	CHIP 2.2k OHM, 1/16W		
R4162	1	D1BA2201A014	CHIP 2.2k OHM, 1/16W		
R4178	1	D1BA2202A014	CHIP 22k OHM, 1/16W		
R4184	1	D1BA2202A014	CHIP 22k OHM, 1/16W		
R5012	1	D1BA2202A014	CHIP 22k OHM, 1/16W		
R8200	1	D1BA2400A014	CHIP 240 OHM, 1/16W		
R8219	1	D1BA2400A014	CHIP 240 OHM, 1/16W		
R8220	1	D1BA2400A014	CHIP 240 OHM, 1/16W		
R4152	1	D1BA3002A014	CHIP 30K OHM, 1/16W		
R4171	1	D1BA3002A014	CHIP 30K OHM, 1/16W		
R4159	1	D1BA3301A014	CHIP 3.3K OHM, 1/16W		
R4160	1	D1BA3301A014	CHIP 3.3K OHM, 1/16W		
R4161	1	D1BA3601A014	CHIP 3.6K OHM, 1/16W		
R5009	1	D1BA5602A014	CHIP 5.6K OHM, 1/16W		
R8304	1	D1BA6201A014	CHIP 6.2K OHM, 1/16W		
R8305	1	D1BA6201A014	CHIP 6.2K OHM, 1/16W		
R8609	1	D1BA6491A014	CHIP 6490 OHM, 1/16W		
R8100	1	D1BB1301A087	CHIP 1.3 K OHM, 1/16W		
R4970	1	D1BB1403A055	CHIP 140K OHM, 1/16W		
R4971	1	D1BB1403A055	CHIP 140K OHM, 1/16W		
R8106	1	D1BB2001A087	CHIP 2K OHM, 1/16W		
R8704	1	D1BB2002A055	CHIP 20K OHM, 1/16W		
R8102	1	D1BB2101A087	CHIP 2.1K OHM, 1/16W		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32X35X [TZRXN01NZUX], TC-L32X35M [TZRXN01NYUX], TC-L32X35L [TZRXN01MHUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R8700	1	D1BB2402A055	CHIP 24K OHM, 1/16W		
R8705	1	D1BB3001A055	CHIP 3K OHM, 1/16W		
R8703	1	D1BB4301A055	CHIP 4.3K OHM, 1/16W		
R8707	1	D1BB5601A055	CHIP 5.6K OHM, 1/16W		
R8701	1	D1BB6041A055	CHIP 6040 OHM, 1/16W		
R1001	1	D1BB7151A055	CHIP 7150 OHM, 1/16W		
R8104	1	D1BB8200A087	Surface mounting precision res		
R3044	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		Solo TC-L32X35L
R3053	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3103	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3105	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3175	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3176	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3178	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3203	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R8630	1	D1HG1038A002	CHIP 10K OHM, 1/16W		
R4121	1	EXB28V100JX	CHIP 10 OHM,		
R4122	1	EXB28V100JX	CHIP 10 OHM,		
R4025	1	EXB28V103JX	CHIP 10K OHM,		
R4027	1	EXB28V103JX	CHIP 10K OHM,		
R8965	1	EXB28V103JX	CHIP 10K OHM,		
R4914	1	EXB28V220JX	CHIP 22 OHM,		
R8222	1	EXB28V330JX	CHIP 33 OHM,		
R8223	1	EXB28V330JX	CHIP 33 OHM,		
R0910	1	EXB28V472JX	CHIP 4.7k OHM,		
R4710	1	EXB28V473JX	CHIP 47k OHM,		
R4723	1	EXB28V473JX	CHIP 47k OHM,		
R4796	1	EXB28V473JX	CHIP 47k OHM,		
R8632	1	EXB28V560JX	CHIP 56 OHM,		
R8634	1	EXB28V560JX	CHIP 56 OHM,		
R3123	1	EXB28V680JX	CHIP 68 OHM,		
R8924	1	EXB28V680JX	CHIP 68 OHM,		
R8925	1	EXB28V680JX	CHIP 68 OHM,		
R4000	1	EXB28VR000X	CHIP 0 OHM,		
R4029	1	EXB28VR000X	CHIP 0 OHM,		
R4264	1	EXB28VR000X	CHIP 0 OHM,		
R4265	1	EXB28VR000X	CHIP 0 OHM,		
R4266	1	EXB28VR000X	CHIP 0 OHM,		
R4267	1	EXB28VR000X	CHIP 0 OHM,		
R8438	1	EXB2HV103JV	CHIP 10K OHM,		
R8915	1	EXB2HV680JV	CHIP 68 OHM,		

OTROS

Posición	Cantidad	Clave	Descripción	S	Comentarios
TU4800B	1	ENGS6302D5F	TV tuners	S	
X8300	1	H0J245500113	crystal resonators		
X8600	1	H0J250500109	crystal resonators		
A12	1	K1KA04AA0190	connectors		
CN0100	1	K1KA14A00248	connectors		
A10	1	K1KY07AA0719	connectors		
A09	1	K1KY15BA0324	connectors		
A15	1	K1MY60B00005	connectors		
JK1000	1	K1FY119D0015	connectors		
JK1001	1	K1FY119D0015	connectors		
JK1002	1	K1FY119E0026	connectors		
JK1030	1	K1FY104E0009	connectors		
JK1040	1	K2LC1YYA0016	connectors		
JK3000A	1	K1U811A00004	connectors		Solo TC-L32X35X/M
JK3000E	1	K1U915A00001	connectors		Solo TC-L32X35L
JK3703	1	K1FY315A0010	connectors		
JK8850	1	K1NA12E00016	connectors		

10.3 Lista de partes de reemplazo **PLACA DE PODER**

APLICA A MODELO TC-L32X35X, TC-L32X35M, TC-L32X35L [TXN/P1MWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

CAPACITORES

Posición	Cantidad	Clave	Descripción	S	Comentarios
C7314	1	F0C2K273A046	Film cap 27000pF 800V		
C7104	1	F0CAF224A021	CAP 220k Pf 250V	S	
C7105	1	F0CAF224A021	CAP 220k Pf 250V	S	
C7214	1	F0CZZ1050007	C 470pF, K, 250V	S	
C7102	1	F1A2E471A003	C 470pF, K, 250V	S	
C7103	1	F1A2E471A003	C 470pF, K, 250V	S	
C7107	1	F1A2E471A003	C 470pF, K, 250V	S	
C7213	1	F1A3A471A060	C 470pF, K, 250V		
C7220	1	F1A3A471A060	C 470pF, K, 250V		
C7513	1	F1J1C475A217	C 4.7µF, K, 16V		
C7325	1	F1J1E105A231	C 1µF, K, 25V		
C7328	1	F1J1E105A231	C 1µF, K, 25V		
C7514	1	F1J1E105A231	C 1µF, K, 25V		
C7604	1	F1J1E105A231	C 1µF, K, 25V		
C7611	1	F1J1E105A231	C 1µF, K, 25V		
C7320	1	F1J1E223A226	C 0.022µF, K, 25V		
C7327	1	F1J1E223A226	C 0.022µF, K, 25V		
C7607	1	F1J1E223A226	C 0.022µF, K, 25V		
C7205	1	F1J1E224A136	C 0.22µF, K, 25V		
C7602	1	F1J1E224A136	C 0.22µF, K, 25V		
C7203	1	F1J1H102A721	CHIP 1000pF, K, 50V		
C7221	1	F1J1H102A721	CHIP 1000pF, K, 50V		
C7302	1	F1J1H102A721	CHIP 1000pF, K, 50V		
C7206	1	F1J1H1030007	CHIP 10000pF, K, 50V		
C7207	1	F1J1H1030007	CHIP 10000pF, K, 50V		
C7218	1	F1J1H1030007	CHIP 10000pF, K, 50V		
C7204	1	F1J1H104A717	CHIP 0.1µF, K, 50V		
C7209	1	F1J1H104A717	CHIP 0.1µF, K, 50V		
C7323	1	F1J1H104A717	CHIP 0.1µF, K, 50V		
C7326	1	F1J1H104A717	CHIP 0.1µF, K, 50V		
C7516	1	F1J1H104A717	CHIP 0.1µF, K, 50V		
C7521	1	F1J1H104A717	CHIP 0.1µF, K, 50V		
C7321	1	F1J1H221A709	CHIP 220pF, K, 50V		
C7324	1	F1J1H221A709	CHIP 220pF, K, 50V		
C7201	1	F1J1H222A721	CHIP 2200pF, K, 50V		
C7608	1	F1J1H222A721	CHIP 2200pF, K, 50V		
C7219	1	F1J1H2240009	CHIP 0.22µF, K, 50V		
C7610	1	F1J1H472A702	CHIP 4700pF, K, 50V		
C7208	1	F1J1H474A757	CHIP 0.47µF, K, 50V		
C7600	1	F1K1E106A136	chip 10µF, K, 25V		
C7601	1	F1K1E106A136	chip 10µF, K, 25V		
C7606	1	F1K1E106A136	chip 10µF, K, 25V		
C7502	1	F2A1E1820027	Cap 1800µF, M, 25V		
C7501	1	F2A1V1820032	Cap 1800µF, M, 25V		
C7322	1	F2A1V4710023	Cap 470µF, K, 25V		
C7301	1	F2A2W8200011	Cap 820µF, M, 450V		

DIODOS

Posición	Cantidad	Clave	Descripción	S	Comentarios
D7329	1	B0ACDJ000014	DIODE		
D7330	1	B0ACDJ000014	DIODE		
D7202	1	B0ADCJ000100	DIODE		
D7334	1	B0ADCJ000100	DIODE		
D7507	1	B0ADCJ000100	DIODE		
D7209	1	B0BC02500002	DIODE		
D7325	1	B0BC02500002	DIODE		
D7337	1	B0BC02500002	DIODE		
D7338	1	B0BC02500002	DIODE		
D7339	1	B0BC02500002	DIODE		
D7341	1	B0BC02500002	DIODE		
D7336	1	B0BC03300012	DIODE		
D7331	1	B0BC4R000002	DIODE		
D7102	1	B0FBAT000018	DIODE	S	
D7302	1	B0HAGQ000001	DIODO		
D7303	1	B0HAGQ000001	DIODO		
D7332	1	B0HAGQ000001	DIODO		
D7205	1	B0HASR000018	DIODE		
D7333	1	B0JAME000058	DIODO		
D7203	1	B0JAME000126	DIODO		
D7204	1	B0JAME000126	DIODO		
D7501	1	B0JBSL000047	DIODE		
D7502	1	B0JBSL000047	DIODE		
D7600	1	B0JCPE000038	DIODE		
D7208	1	DA2J10100L	DIODE		
D7326	1	DA2J10100L	DIODE		
D7327	1	DA2J10100L	DIODE		
D7328	1	DA2J10100L	DIODE		
D7342	1	DA2J10100L	DIODE		
D7343	1	DA2J10100L	DIODE		
D7508	1	DA2J10100L	DIODE		
D7207	1	DZ2J068M0L	DIODE		
D7313	1	DZ2J068M0L	DIODE		

10.3 Lista de partes de reemplazo **PLACA DE PODER**

APLICA A MODELO TC-L32X35X, TC-L32X35M, TC-L32X35L [TXN/P1MWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

D7335	1	DZ2J180M0L	DIODE		
D7101	1	ERZV10V621C2	DIODE	S	
BOBINAS					
Posición	**Cantidad**	**Clave**	**Descripción**	**S**	**Comentarios**
L7201	1	EXCELDR35V	BOBINA		
L7209	1	EXCELDR35V	BOBINA		
L7302	1	EXCELDR35V	BOBINA		
L7306	1	EXCELDR35V	BOBINA		
LF7102	1	G0B103H00013	CHOKE COIL	S	
LF7103	1	G0B103H00013	CHOKE COIL	S	
LF7101	1	G0B650H00002	CHOKE COIL	S	
L7600	1	G0C270MA0049	BOBINA		
L7207	1	J0JKA0000024	BOBINA		
L7208	1	J0JKA0000024	BOBINA		
L7502	1	J0JKA0000024	BOBINA		
L7503	1	J0JKA0000024	BOBINA		
L7504	1	J0JKA0000024	BOBINA		
L7505	1	J0JKA0000024	BOBINA		
TRANSISTORES					
Posición	**Cantidad**	**Clave**	**Descripción**	**S**	**Comentarios**
Q7310	1	B1ABCF000231	DIODE		
Q7311	1	B1ABCF000231	DIODE		
Q7314	1	B1ABCF000231	DIODE		
Q7501	1	B1ABCF000231	DIODE		
Q7309	1	B1ABGF000019	TRANSISTOR		
Q7301	1	B1ADCE000022	TRANSISTOR		
Q7312	1	B1ADCE000022	TRANSISTOR		
Q7308	1	B1ADGJ000008	TRANSISTOR		
Q7313	1	B1CBGD000001	TRANSISTOR		
Q7201	1	B1CERR000057	TRANSISTOR		
Q7503	1	B1CHRE000005	TRANSISTOR		
Q7504	1	B1CHRE000005	TRANSISTOR		
Q7202	1	B1HFCFA00020	TRANSISTOR		
CIRCUITOS INTEGRADOS					
Posición	**Cantidad**	**Clave**	**Descripción**	**S**	**Comentarios**
IC7201	1	C0DBBYY00033	IC		
IC7301	1	C5HAZYY00014	IC		
IC7502	1	C0DBZMC00006	IC		
IC7601	1	C0DBAYY00922	IC		
RESISTENCIAS					
Posición	**Cantidad**	**Clave**	**Descripción**	**S**	**Comentarios**
R7105	1	D0B1106JA033	Metal 10M OHM 1W	S	

R7355	1	D0GD100JA052	CHIP 10 OHM, 1/8W		
R7393	1	D0GD101JA052	CHIP 100 OHM, 1/8W		
R7394	1	D0GD101JA052	CHIP 100 OHM, 1/8W		
R7501	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		
R7502	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		
R7233	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7234	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7302	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7364	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7365	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7377	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7395	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7504	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7514	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7531	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7532	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7209	1	D0GD104JA052	CHIP 100 KOHM, 1/8W		
R7231	1	D0GD104JA052	CHIP 100 KOHM, 1/8W		
R7357	1	D0GD104JA052	CHIP 100 KOHM, 1/8W		
R7359	1	D0GD104JA052	CHIP 100 KOHM, 1/8W		
R7361	1	D0GD105JA052	CHIP 1MOHM, 1/8W		
R7601	1	D0GD105JA052	CHIP 1MOHM, 1/8W		
R7354	1	D0GD113JA052	CHIP 11 KOHM, 1/8W		
R7367	1	D0GD152JA052	CHIP 1.5 KOHM, 1/8W		
R7387	1	D0GD152JA052	CHIP 1.5 KOHM, 1/8W		
R7516	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7517	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7518	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7519	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7388	1	D0GD162JA052	CHIP 1.6KOHM, 1/8W		
R7389	1	D0GD162JA052	CHIP 1.6KOHM, 1/8W		
R7505	1	D0GD222JA052	CHIP 2.2 KOHM, 1/8W		
R7301	1	D0GD223JA052	CHIP 22 KOHM, 1/8W		
R7376	1	D0GD223JA052	CHIP 22 KOHM, 1/8W		
R7331	1	D0GD301JA052	CHIP 300 OHM, 1/8W		
R7353	1	D0GD301JA052	CHIP 300 OHM, 1/8W		
R7356	1	D0GD301JA052	CHIP 300 OHM, 1/8W		
R7392	1	D0GD392JA052	CHIP 3.9 KOHM, 1/8W		
R7206	1	D0GD393JA052	CHIP 39 KOHM, 1/8W		
R7207	1	D0GD470JA052	CHIP 47 OHM, 1/8W		
R7303	1	D0GD470JA052	CHIP 47 OHM, 1/8W		
R7232	1	D0GD472JA052	CHIP 4.7 OHM, 1/8W		

10.3 Lista de partes de reemplazo **PLACA DE PODER**

APLICA A MODELO TC-L32X35X, TC-L32X35M, TC-L32X35L [TXN/P1MWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

R7503	1	D0GD472JA052	CHIP 4.7 OHM, 1/8W		
R7524	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7600	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7605	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7203	1	D0GD683JA052	CHIP 68 KOHM, 1/8W		
R7221	1	D0GD683JA052	CHIP 68 KOHM, 1/8W		
R7606	1	D0GD683JA052	CHIP 68 KOHM, 1/8W		
R7362	1	D0GD821JA052	CHIP 820 OHM, 1/8W		
R7330	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
R7401	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JS7401	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JS7403	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JS7503	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
R7215	1	D1BD1202A066	CHIP 12 K OHM, 1/8W		
R7314	1	D1BD1203A066	CHIP 120 K OHM, 1/8W		
R7403	1	D1BD1621A066	CHIP 1620 OHM, 1/8W		
R7402	1	D1BD1741A066	CHIP 1740 OHM, 1/8W		
R7305	1	D1BD1803A066	CHIP 180K OHM, 1/8W		
R7313	1	D1BD1803A066	CHIP 180K OHM, 1/8W		
R7515	1	D1BD1822A066	CHIP 18.2 KOHM, 1/8W		
R7406	1	D1BD2202A066	CHIP 22 KOHM, 1/8W		
R7604	1	D1BD2212A066	CHIP 22.1 KOHM, 1/8W		
R7404	1	D1BD2321A066	CHIP 2320 OHM, 1/8W		
R7405	1	D1BD3161A066	CHIP 3160 OHM, 1/8W		
R7216	1	D1BD3302A066	CHIP 33K OHM, 1/8W		
R7513	1	D1BD3321A066	CHIP 3300 OHM, 1/8W		
R7235	1	D1BD4701A066	CHIP 4700 OHM, 1/8W		
R7244	1	D1BD5102A066	CHIP 51K OHM, 1/8W		
R7243	1	D1BD6803A066	CHIP 680K OHM, 1/8W		
R7219	1	D1BD7503A066	CHIP 750K OHM, 1/8W		
R7603	1	D1BD7872A066	CHIP 78.7K OHM, 1/8W		
R7208	1	ERDS1TJ220T	Res 22 ohm 1/4 W		
R7358	1	ERDS1TJ222T	Res 2.2 ohm 1/4 W		
R7205	1	ERDS1TJ391T	Res 390 ohm 1/4 W		
R7332	1	ERJ12YJ474U	Res 470 K ohm 1/2 W		
R7333	1	ERJ12YJ474U	Res 470 K ohm 1/2 W		
R7101	1	ERJ14YJ105U	Res 1M ohm 1/4 W	S	
R7102	1	ERJ14YJ105U	Res 1M ohm 1/4 W	S	
R7103	1	ERJ14YJ105U	Res 1M ohm 1/4 W	S	
R7240	1	ERJ8ENF1504V	CHIP 1.5MOHM, 1/4W		
R7241	1	ERJ8ENF1504V	CHIP 1.5MOHM, 1/4W		
R7242	1	ERJ8ENF1504V	CHIP 1.5MOHM, 1/4W		
R7396	1	ERJ8ENF2204V	CHIP 2.2 MOHM, 1/8W		
R7397	1	ERJ8ENF2204V	CHIP 2.2 MOHM, 1/8W		
R7398	1	ERJ8ENF2204V	CHIP 2.2 MOHM, 1/8W		
R7399	1	ERJ8ENF2204V	CHIP 2.2 MOHM, 1/8W		
R7360	1	ERX1SJ1R0V	Res 1 ohm 1 W		
R7201	1	ERX1SJR22V	Res 22 ohm 1 W		
R7202	1	ERX1SJR22V	Res 22 ohm 1 W		
R7210	1	ERX1SJR22V	Res 22 ohm 1 W		
R7380	1	ERX1SJR22V	Res 22 ohm 1 W		
R7381	1	ERX1SJR22V	Res 22 ohm 1 W		

OTROS

Posición	Cantidad	Clave	Descripción		Comentarios
CF7101	1	D4CAY8R20001	POSISTOR	S	
CF7102	1	D4CAY8R20001	POSISTOR	S	
SW7402	1	EVQ11G05R	SWITCH		
SW7403	1	EVQ11G05R	SWITCH		
SW7404	1	EVQ11G05R	SWITCH		
SW7405	1	EVQ11G05R	SWITCH		
SW7406	1	EVQ11G05R	SWITCH		
SW7407	1	EVQ11G05R	SWITCH		
SW7410	1	EVQ11G05R	SWITCH		
T7201	1	G4DYA0000289	TRASFORMER	S	
T7301	1	G4DYA0000284	TRASFORMER	S	
ZA7001	1	K4AD01A00003	Terminals		
ZA7003	1	K4AD01A00003	Terminals		
PC7301	1	B3PAA0000363	OPTOACOPLADOR	S	
PC7302	1	B3PAA0000363	OPTOACOPLADOR	S	
PC7303	1	B3PAA0000363	OPTOACOPLADOR	S	
P1	1	K1KA02B00295	CONNECTOR		
P4	1	K1KA14BA0311	CONNECTOR		
P2	1	K1KY16BA0311	CONNECTOR		
PA7504	1	K5H502Y00004	Surface mounting fuses		
PA7601	1	K5H502Y00004	Surface mounting fuses		
PA7503	1	K5H502YA0063	Surface mounting fuses		

10.4 Lista de partes de reemplazo **PLACA KA SENSOR PANEL**

APLICA A MODELO TC-L32X35X, TC-L32X35M, TC-L32X35L [TZRXN02NAUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

COMPONENTES PLACA KA				
Posición	**Cantidad**	**Clave**	**Descripción**	**Comentarios**
C2801	1	F2G0J470A019	aluminum non-solid elec	
C2802	1	F1G1C1030008	aluminum non-solid elec	
C2805	1	F1H1C104A041	aluminum non-solid elec	
D2800B	1	B3AAB0000379	Light emitting devices	
KA10	1	K1KA07B00135	connectors for in-equipment use	
Q2800	1	B1ABCE000015	Silicon transistors	
Q2802	1	B1ABCE000015	Silicon transistors	
R2809	1	D0GA103JA015	CHIP 10K OHM, 1/16W	
R2811	1	D0GA103JA015	CHIP 10K OHM, 1/16W	
R2810	1	D0GA104JA023	CHIP 100K OHM, 1/16W	
R2808	1	D0GA184JA023	CHIP 100K OHM, 1/16W	
R2802	1	D0GA223JA023	CHIP 22K OHM, 1/16W	
R2806	1	D0GA470JA023	CHIP 47 OHM, 1/16W	
R2801	1	D0GA473JA015	CHIP 47k OHM, 1/16W	
R2807	1	D0GA562JA023	CHIP 5.6K OHM, 1/16W	
R2830	1	D0GAR00J0005	CHIP 0 OHM, 1/16W	
R2805	1	D1BA1201A014	CHIP 1.2 K OHM, 1/16W	
RM2800	1	PNJ4815M01TV	Photo detectors (Photo ICs)	
SN2800	1	B3JB00000078	Photo detectors (Photo ICs)	

10.5 Lista de partes de reemplazo **PLACA LD DRIVER**

APLICA A MODELO TC-L32X35X, TC-L32X35M, TC-L32X35L [TZRXNP04QDUE].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

COMPONENTES PLACA LD				
Posición	**Cantidad**	**Clave**	**Descripción**	**Comentarios**
C9500	1	F2A1V471B560	electrolytic capacitor	
C9501	1	F1K1H225A118	Surface mounting capacitor	
C9502	1	F1H1C474A143	Surface mounting capacitor	
C9503	1	F1G1E1030005	Surface mounting capacitor	
C9505	1	F1G1E1030005	Surface mounting capacitor	
C9506	1	F1J1A475A087	Surface mounting capacitor	
C9507	1	F1H1C474A143	Surface mounting capacitor	
C9511	1	F1J1H182A721	Surface mounting capacitor	
C9512	1	F1J1H182A721	Surface mounting capacitor	
C9513	1	F1J1H182A721	Surface mounting capacitor	
C9514	1	F1J1H182A721	Surface mounting capacitor	
C9515	1	F1J1H182A721	Surface mounting capacitor	
C9516	1	F1J1H182A721	Surface mounting capacitor	
C9517	1	F2A2C470A209	electrolytic capacitor	
C9518	1	F1G1E1030005	Surface mounting capacitor	
C9524	1	F1L2E1040002	Surface mounting capacitor	
D9500	1	B0FCAM000001	Diode	
D9509	1	DZ2J120M0L	Diode	
D9510	1	B0BC6R600005	Diode	
D9520	1	DB2J41100L	Diode	
D9521	1	B0ECKM000053	Diode	
D9522	1	B0ECKM000053	Diode	
IC9500	1	C0ZBZ0001816	Other general-purpose ICs	
L9500	1	G1C470MA0490	Surface mounting inductors	
L9501	1	G1C470MA0490	Surface mounting inductors	
L9503	1	J0JHC0000075	Filter for EMI / EMC (Beads cores)	
LD2	1	K1KY12BA0322	2-piece connectors for in-equipment use	
LD4	1	K1KY14BA0302	2-piece connectors for in-equipment use	
Q9501	1	B1MBCMA00001	Transistor arrays (Field effect transist	
Q9502	1	DSC200100L	Silicon transistors	
Q9503	1	B1CFRM000024	Field effect transistors	
Q9504	1	B1MBCMA00001	Transistor arrays (Field effect transist	
Q9505	1	B1MBCMA00001	Transistor arrays (Field effect transist	
Q9506	1	B1CFRM000024	Field effect transistors	
R9500	1	D0GD473JA052	CHIP 47K OHM, 1/16W	
R9501	1	D0GAR00J0005	CHIP 0 OHM, 1/16W	
R9502	1	D0GDR00J0004	CHIP 0 OHM, 1/16W	
R9503	1	D0GDR00J0004	CHIP 0 OHM, 1/16W	
R9504	1	D1BD3R30A066	CHIP 3.3 OHM, 1/16W	
R9505	1	D1BD3R30A066	CHIP 3.3 OHM, 1/16W	
R9548	1	D0GA101JA015	CHIP 100 OHM, 1/16W	
R9549	1	D0GA101JA015	CHIP 100 OHM, 1/16W	
R9526	1	D0GA134JA023	CHIP 130K OHM, 1/16W	
R9517	1	D0GA203JA023	CHIP 20K OHM, 1/16W	
R9527	1	D0GA203JA023	CHIP 20K OHM, 1/16W	
R9514	1	D0GA331JA023	CHIP 330 OHM, 1/16W	
R9510	1	D0GA473JA015	CHIP 47K OHM, 1/16W	
R9516	1	D0GA473JA015	CHIP 47K OHM, 1/16W	
R9529	1	D0GA473JA015	CHIP 47K OHM, 1/16W	
R9551	1	D0GA473JA015	CHIP 47K OHM, 1/16W	
R9542	1	D0GAR00J0005	CHIP 0 OHM, 1/16W	
R9543	1	D0GAR00J0005	CHIP 0 OHM, 1/16W	
R9544	1	D0GAR00J0005	CHIP 0 OHM, 1/16W	
R9547	1	D0GAR00J0005	CHIP 0 OHM, 1/16W	
R9701	1	D0GBR00J0004	CHIP 0 OHM, 1/8W	
R9556	1	D0GD100JA059	CHIP 100 OHM, 1/8W	
R9557	1	D0GD100JA059	CHIP 100 OHM, 1/8W	
R9540	1	D0GD1R0JA052	CHIP 1 OHM, 1/8W	
R9525	1	D0GD203JA052	CHIP 20KOHM, 1/8W	
R9528	1	D0GD220JA059	CHIP 22 OHM, 1/16W	
R9550	1	D0GD220JA059	CHIP 22 OHM, 1/8W	
R9524	1	D0GD244JA052	CHIP 240K OHM, 1/8W	
R9541	1	D0GD244JA052	CHIP 240K OHM, 1/8W	
R9523	1	D0GD304JA052	CHIP 300K OHM, 1/8W	
R9519	1	D0GFR20JA020	CHIP 0.2 OHM, 1/4W	
R9520	1	D0GFR20JA020	CHIP 0.2 OHM, 1/4W	
R9521	1	D0GFR20JA020	CHIP 0.2 OHM, 1/4W	
R9512	1	D1BA1102A014	CHIP 11K OHM, 1/16W	
R9511	1	D1BA2152A014	CHIP 21.5 K OHM, 1/16W	
R9513	1	D1BA2322A014	CHIP 3.3 OHM, 1/16W	
R9515	1	D1BA4703A014	CHIP 3.3 OHM, 1/16W	
R9506	1	D1BD3R30A066	CHIP 3.3 OHM, 1/16W	
R9507	1	D1BD3R30A066	CHIP 3.3 OHM, 1/16W	
R9508	1	D1BD3R30A066	CHIP 3.3 OHM, 1/16W	
R9509	1	D1BD3R30A066	CHIP 3.3 OHM, 1/16W	

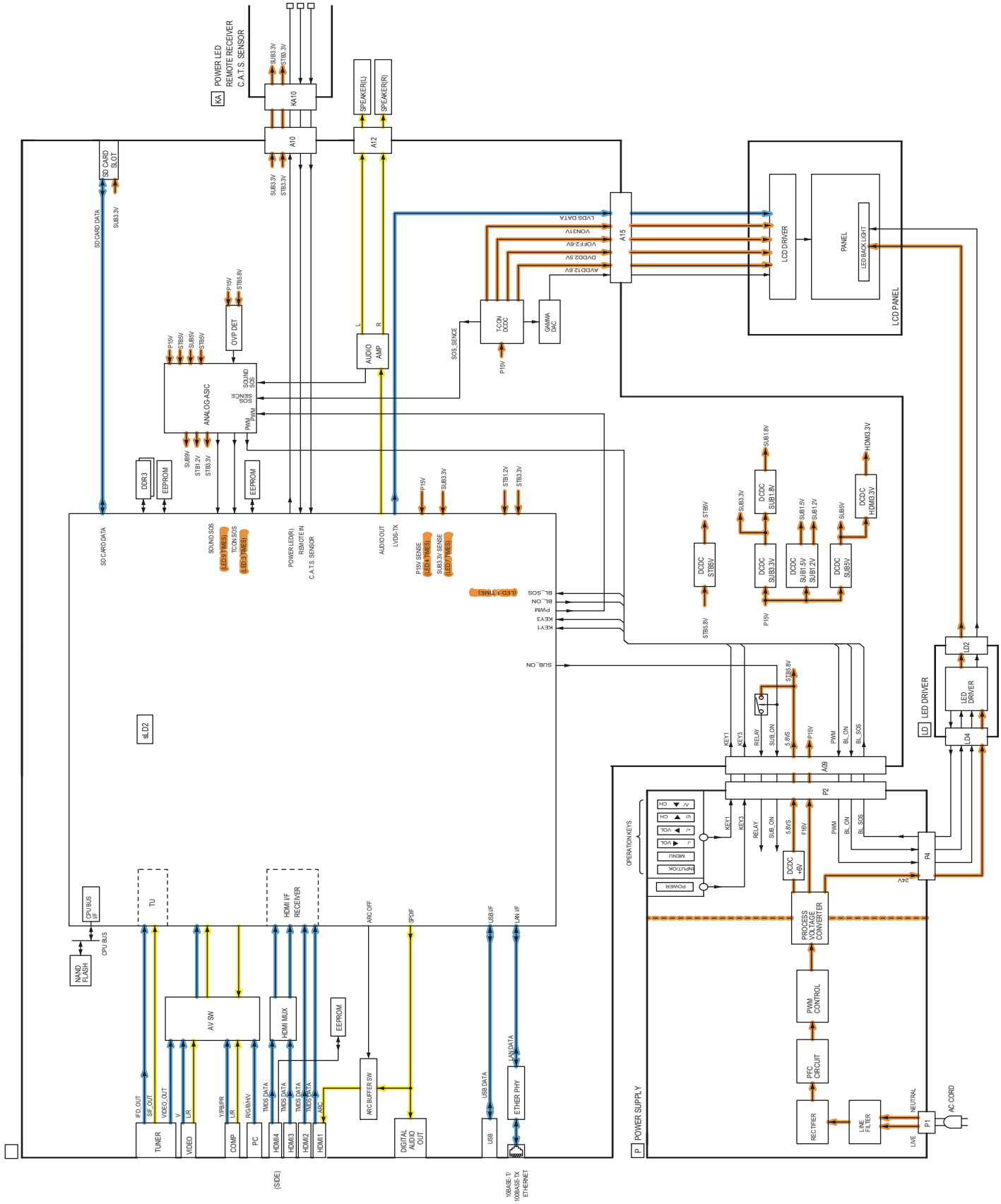
11.6 Lista de partes de reemplazo **PARTES MECANICAS**

APLICA A MODELO TC-L32X35X, TC-L32X35M, TC-L32X35L

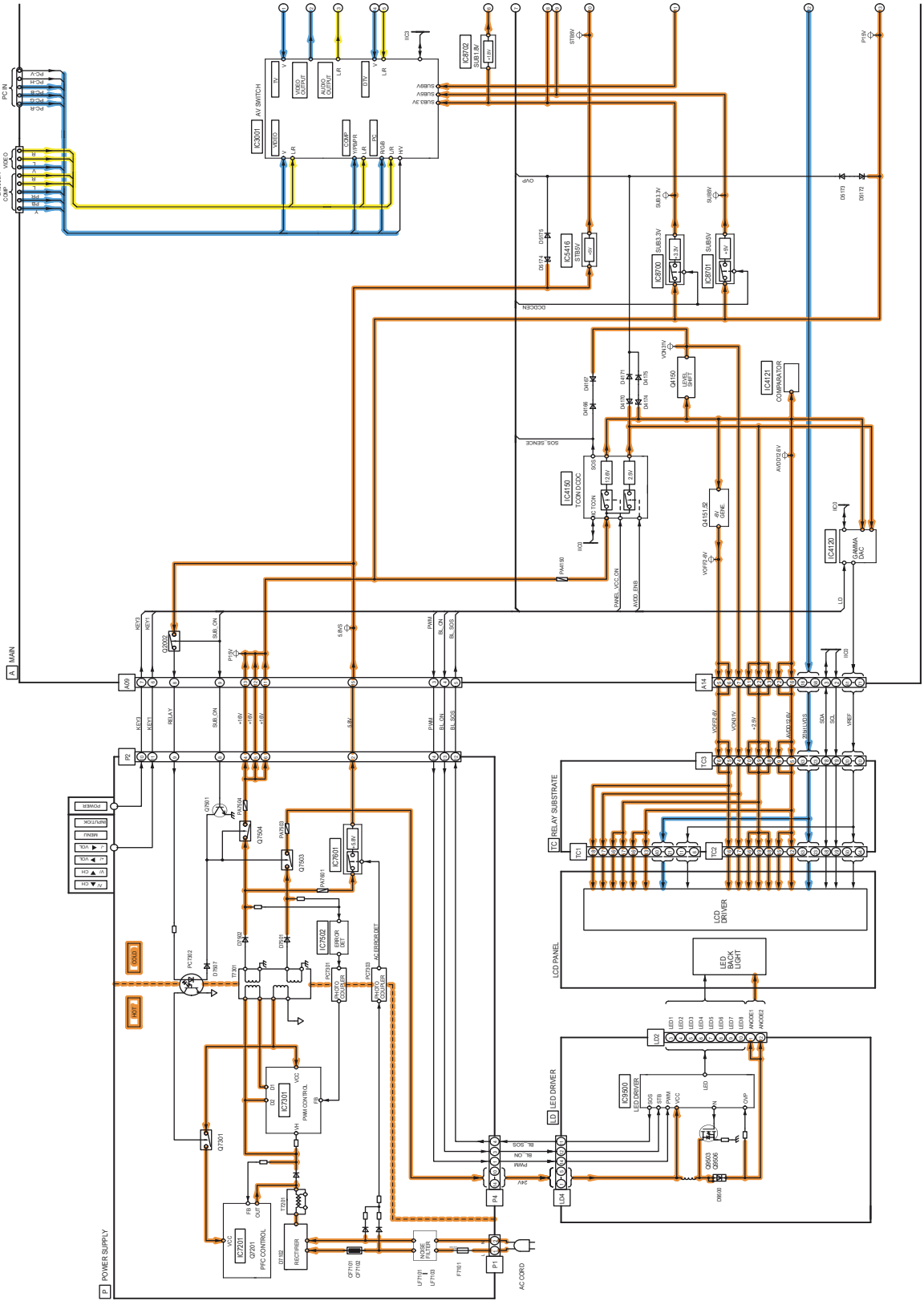
Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

MECANICO					
Cantidad	Unidad	Clave	Descripción	S	Comentarios
1	PCE	TXFPE01MWUX	PEDESTAL ACCESSORIES KIT		
1	PCE	TPE3A0003	BAG		
4	PCE	XYN4+F30FJK	SCREW		
4	PCE	XSS4+16FJK	SCREW(PEDE4)		
1	PCE	K2CB2YY00035	AC CORD	S	SOLO TC-L32X35X/M
1	PCE	K2CR2YY00035	AC CORD	S	SOLO TC-L32X35L
1	PCE	K5D502BNA005	# K5D502BNA007 AC FUSE		
2	PCE	L0AA16C00008	SPEAKER		
1	PCE	N2QAYB000570	REMOTE TRANSMITTER		
1	PCE	N2QAYB000622	REMOTE TRANSMITTER		SOLO TC-L32X35L
1	PCE	**TBL3AX0011**	PEDESTAL COMPLETE ASSY		
1	PCE	TBL5ZA3129	STAND METAL MOUNT		
1	PCE	TBM4GU113	ADJUSTMENT SHEET		
4	PCE	TEW4GF007	AL/PET TAPE		
7	PCE	THEJ024	TORNILLO METALES		
16	PCE	THEJ036J	M3 SCREW(A5/P7)		
9	PCE	THEJ0389	SCREW(BC9)		
4	PCE	TKKL5521	M6_CAP		
1	PCE	TKP4GA06401	SIDE AV BRACKET	S	
1	PCE	TKP4GA06901	LED PANEL	S	
2	PCE	TKX4GA04901	SP BRACKET L		
2	PCE	TKX4GA05001	SP BRACKET R		
1	PCE	TKX4GA06301	BOTTOM COVER		
2	PCE	TKZ2AG5010	METAL BRACKET PCB A		
1	PCE	TKZX5270	METAL BRACKET BOTTOM		
2	PCE	TMK2AG08601	SP SPONGE		
1	PCE	TMK2AX147	BARRIER LCD		
1	PCE	XTW3+10TFJ	TORNILLO		
2	PCE	TMME260	CLAMPER(METAL_BTM2)		
5	PCE	TMME268	CLAMPER(V1/VESA1/BTM7)		
1	PCE	TQB3AA0017-1	INSTRUCTIVO	S	SOLO TC-L32X35X
1	PCE	TQB3AA0018-1	INSTRUCTIVO	S	SOLO TC-L32X35M
1	PCE	TQB3AC0016	INSTRUCTIVO	S	SOLO TC-L32X35L
1	PCE	TSXM270	LVDS FFC		
1	PCE	TTU3AA0039	BACK COVER COMPLETE		SOLO TC-L32X35L
1	PCE	TTU3AA0041	BACK COVER COMPLETE		SOLO TC-L32X35M
1	PCE	TTU3AA0042	BACK COVER COMPLETE		SOLO TC-L32X35X
1	PCE	TTY4GA0246	GABINETE COMPLETO		SOLO TC-L32X35X
1	PCE	TTY4GA0246M	GABINETE COMPLETO		SOLO TC-L32X35M
1	PCE	TTY4GA0249	GABINETE COMPLETO		SOLO TC-L32X35L
1	PCE	TXAKP01MRUX	CONTROL PANEL ASSY		SOLO TC-L32X35L
1	PCE	TXAKP01NJUU	CONTROL PANEL ASSY		SOLO TC-L32X35X/M
1	PCE	TXJ/P4NJUU	P4-LD4		
1	PCE	TXJA09MCUH	A09-P2		
1	PCE	TXJA10NJUU	A10-KA10		
1	PCE	TXJA12NJUU	A12-SP		
1	PCE	TXN/P1MWUX	P PRINT(FINISHED)	S	
1	PCE	TZRNP04QDUE	LD-PCB	S	
1	PCE	TZRXN01MHUL	A-PCB ASS'Y KIT FOR PANAMEX	S	SOLO TC-L32X35L
1	PCE	TZRXN01NYUX	A-PCB ASS'Y KIT FOR PANAMEX	S	SOLO TC-L32X35M
1	PCE	TZRXN01NZUX	A-PCB ASS'Y KIT FOR PANAMEX	S	SOLO TC-L32X35X
1	PCE	TZRXN02NAUX	KA-PCB ASS'Y KIT FOR PANAMEX	S	
1	PCE	VVX32H101G00	LCD-LED PANEL	S	
6	PCE	XTB4+15JFJ	SCREW		
21	PCE	XTB4+15JFJK	SCREW (B/COVER)		
1	PCE	XTV3+10GFJK	SCREW(AV2)		

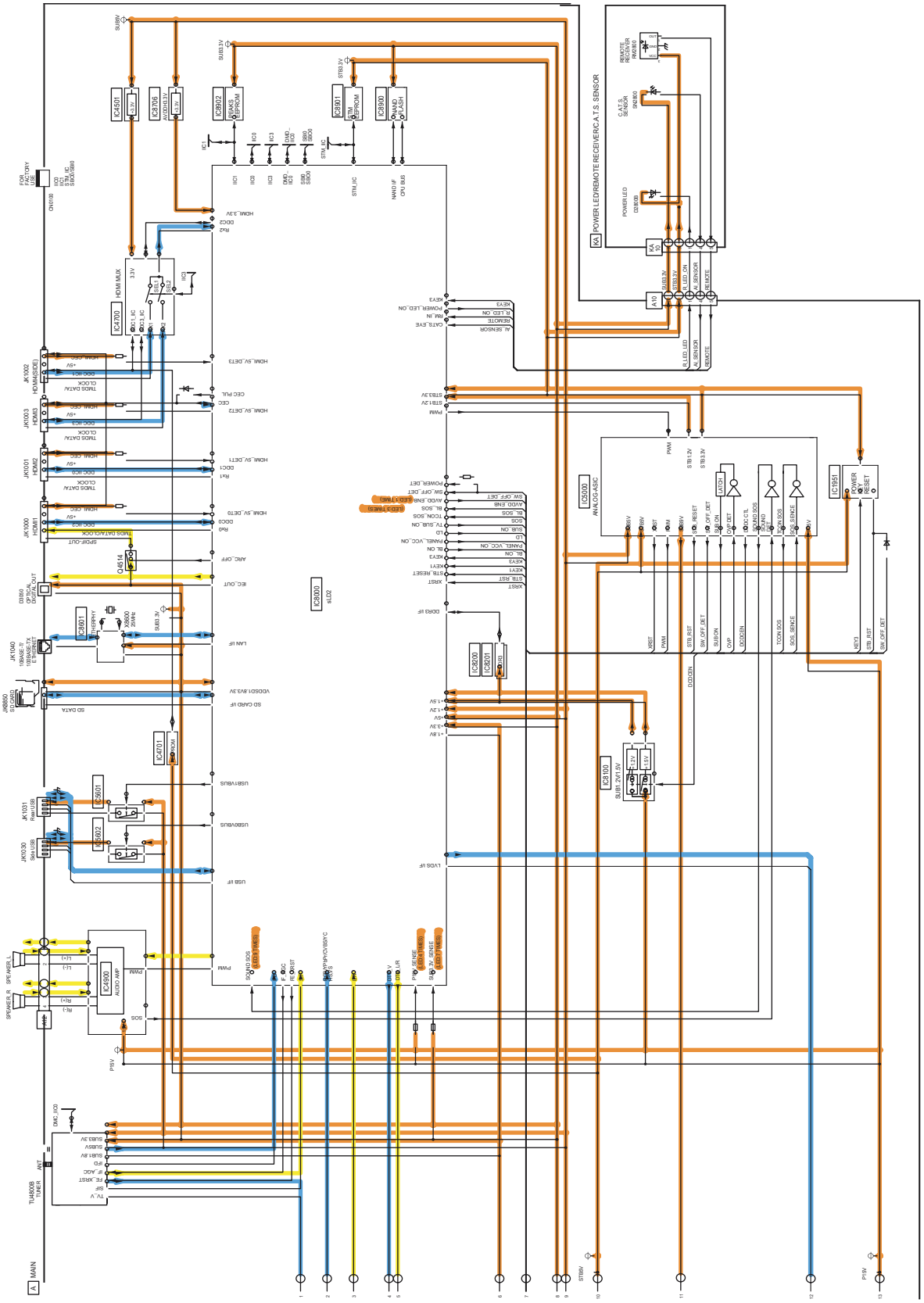
11. DIAGRAMA A BLOQUES APLICA SERIE X35 (1/3).



11.1 DIAGRAMA A BLOQUES APLICA SERIE X35 (2/3).



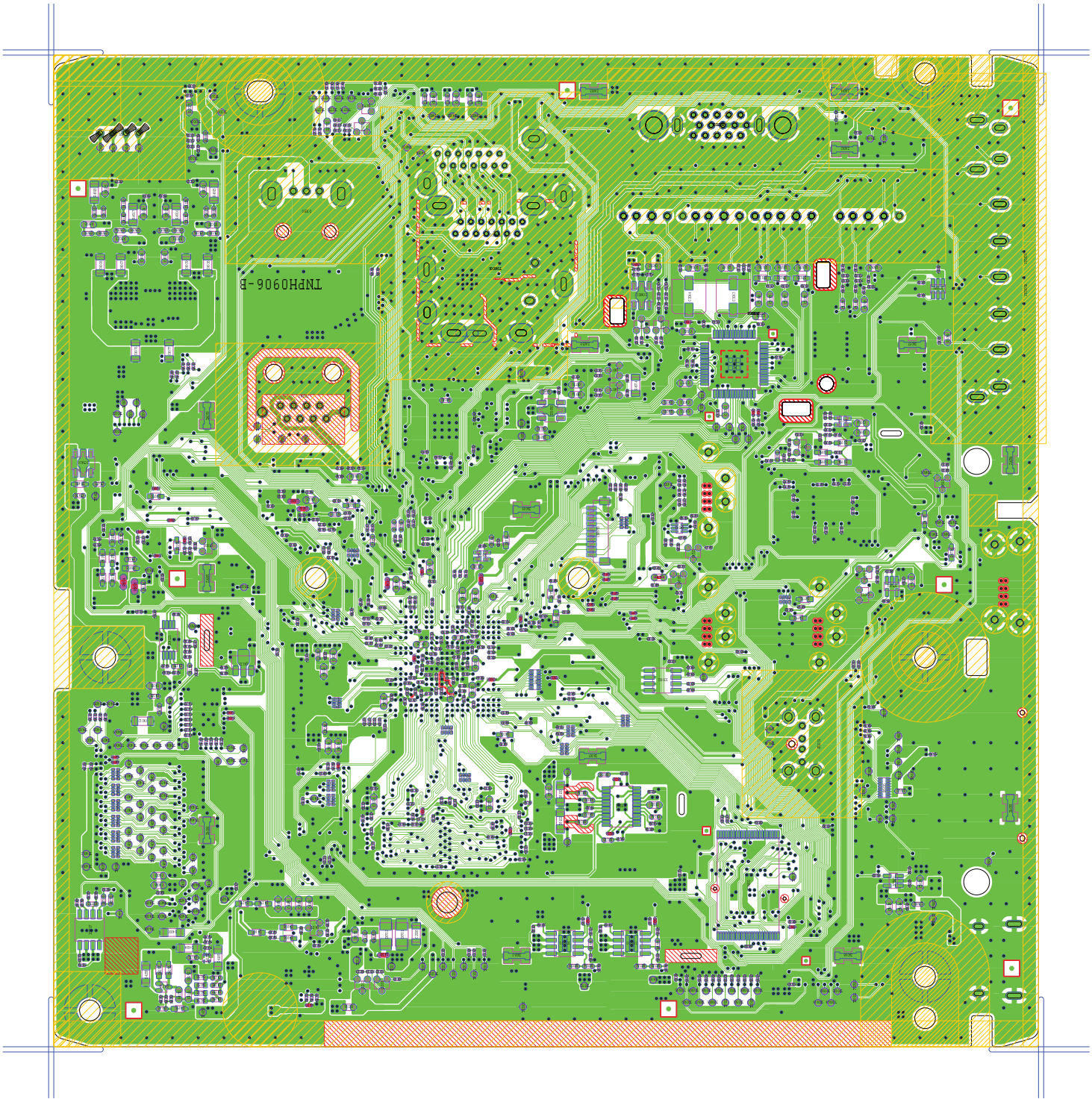
14.2 DIAGRAMA A BLOQUES APLICA SERIE X35 (3/3).



12 LAYOUT PLACA PRINCIPAL A

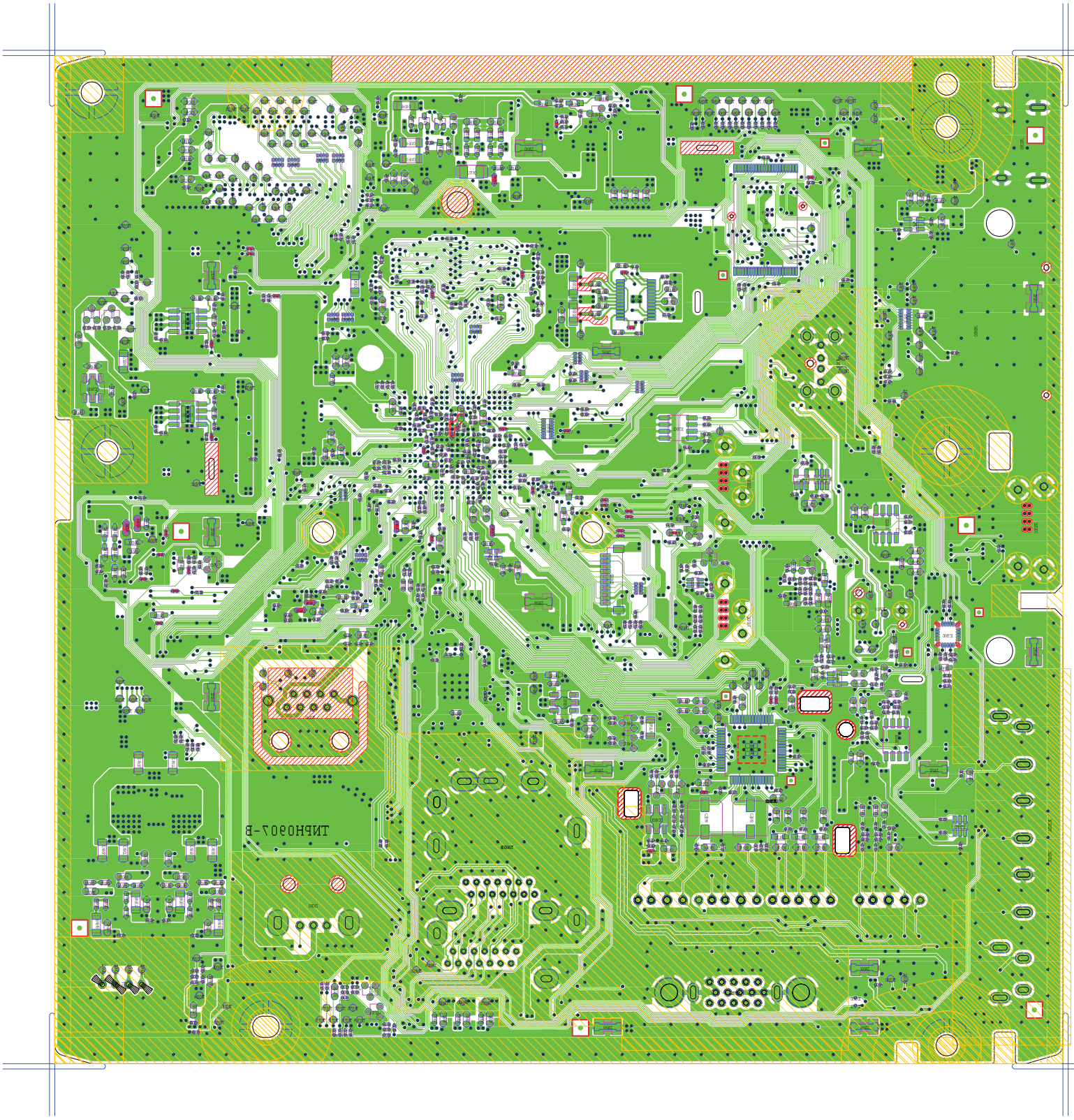
12.1 VISTA FRONTAL

TC-L32X35X (TZRXN01NZUX), TC-L32X35M (TZRXN01NYUX), TC-L32X35L (TZRXN01MHUL),



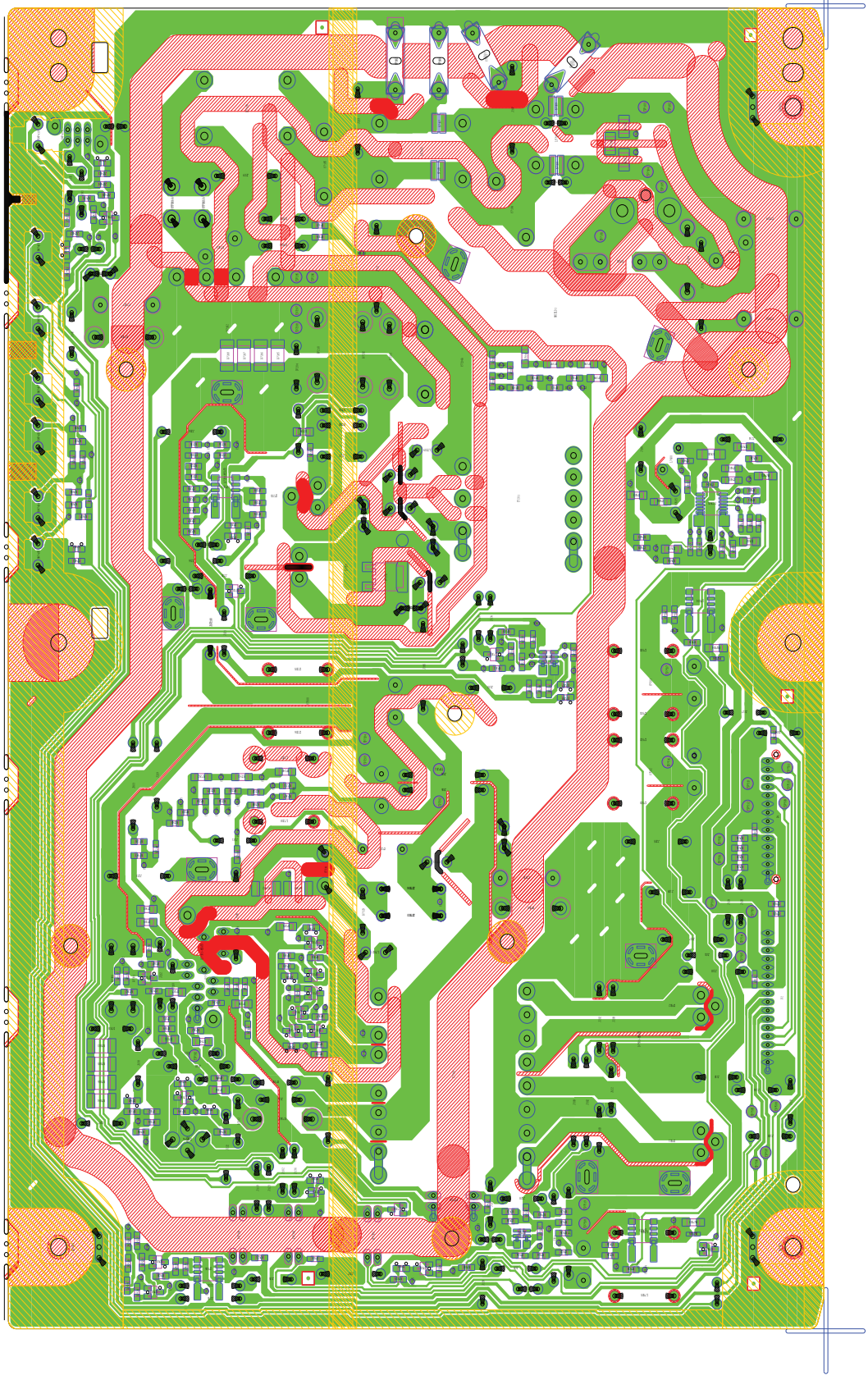
12 LAYOUT PLACA PRINCIPAL A

12.2 VISTA TRASERA.
TC-L32X35X (TZRXN01NZUX), TC-L32X35M (TZRXN01NYUX), TC-L32X35L (TZRXN01MHUL),



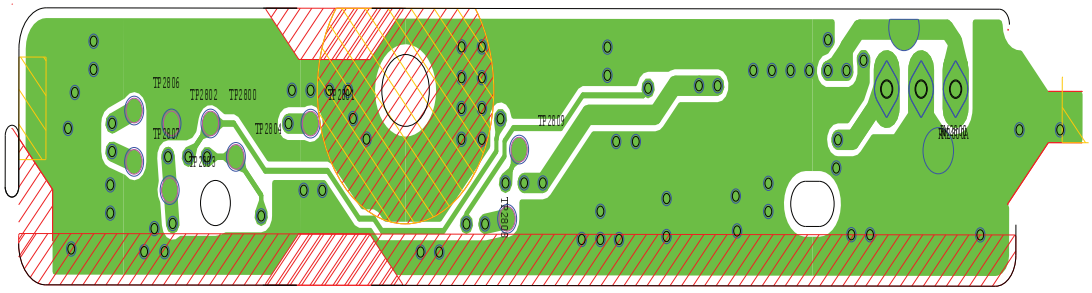
13 PLACA DE PODER .

PLACA DE PODER VISTA TRASERA TODOS SERIE X35 (TXN/P1MWUX).

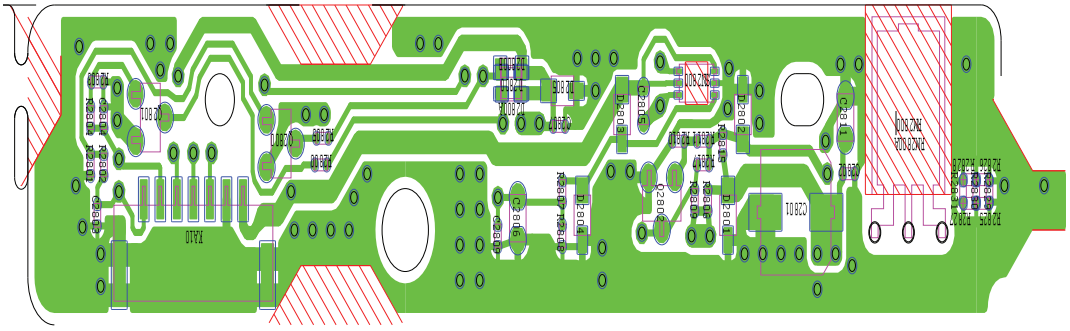


14 PLACA KA SENSOR PANEL
TODOS SERIE X35 (TZRXN02NAUX).

PLACA KA VISTA TRASEREA

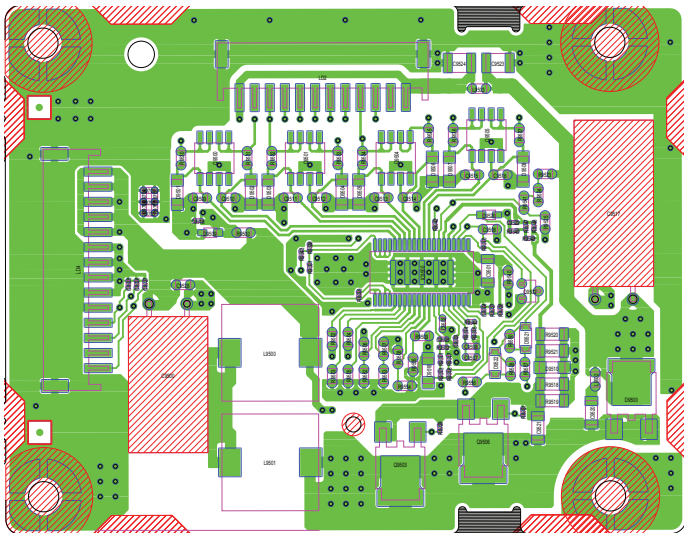


PLACA KA VISTA FRONTAL

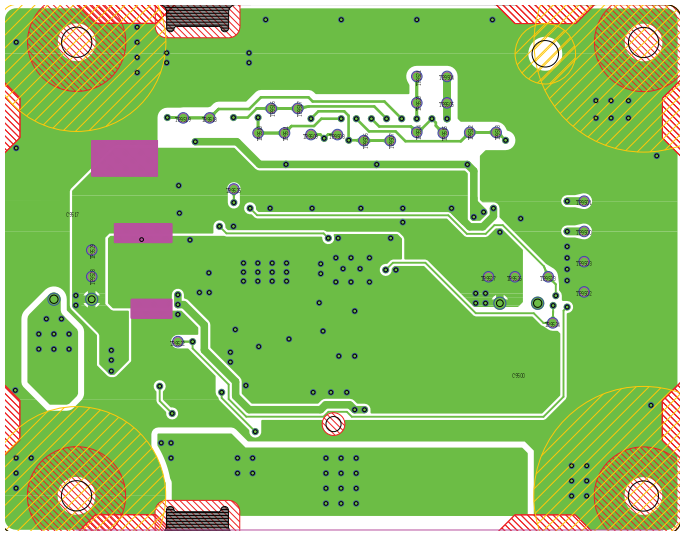


15 PLACA LD LED DRIVER
TODOS SERIE X35 (TZRNP04QDUE).

VISTA FRONTAL



VISTA TRASERA



16 Diagramas

16.1 Diagrama para chasis LA15.

Aviso Importante de Seguridad

Los componentes identificados por una marca ⚠ tendrán características especiales importantes para seguridad. Cuando reemplace alguno de estos componentes, use las partes especificadas por el fabricante.

Notas:

1. Resistencia:

Todas las resistencias de carbon son de 1/4W, a menos que marque lo contrario:

La unidad es OHM [Ω] k=1,000, M=1,000,000)

- ⊠ Inflamable
- ○ Sólido
- △ Alambre dañado
- ⊠ Óxido Metal
- ◎ Película de Metal
- ⊗ Fusible

2. Capacitor:

Todas los capacitores cerámicos son de 50V, a menos que marque lo siguiente:

La unidad es μF, a menos que note lo contrario:

- ⊗ Compensación de Temperatura
- Ⓜ Poliester
- ⓜ Poliester Metálico
- ⊠ Polisacárido

Bipolar

Electrolítico

- Ⓣ Dipped Tantalum
- Ⓩ Diodo Tipo Zener

3. Bobina

La unidad de inductancia es μH, a menos que indique otra cosa.

4. Punto de Prueba

⚲ :Posición de Punto de Prueba

5. Símbolo de Tierra

: Chasis de Tierra Fria

Línea de Tierra (Caliente)

6. Medida de Voltaje

El voltaje es medido por un Voltímetro DC

Las condiciones de medida son las siguientes:

Fuente de Alimentación automatica ..... TC-L32X35X TC-L32X35M: 110~127 Vca, 50~60Hz
TC-L32X35L : 220 Vca, 50~60Hz
Señal Recibida..... Barra de Señal de Color
Todos los Controles del Usuario..... Posición Máxima

7. Número en el círculo rojo indica el número en la forma de onda (Vea el patrón en la Tabla)

8. Cuando la flecha se encuentre señalando ( ), la conexión se encuentra fácilmente en dirección a la flecha.

9. Indica el flujo mayor señalado : Video : Audio

10. Este diagrama esquemático es el último en el momento de imprimirse y está sujeto a cambio sin previo aviso.

Comentarios:

1. El circuito de poder contiene una área del circuito (Tierra Caliente) que usa una fuente de alimentación separada para aislar la conexión de Tierra Fria.

Precauciones:

a) No toque la parte ó las partes de tierra caliente con las de tierra fría al mismo tiempo, ya que usted puede sufrir daños.

b) No conecte al mismo tiempo un instrumento a los circuitos calientes ó frios, como un osciloscopio. Conecte el instrumento de tierra a la conexión de tierra correcto.

c) Asegúrese de desconectar la clavija del Televisor antes de retirar el chasis.

d) Nota importante :

Use el esquemático anexo solo para referencia del circuito y para referencia con el numero de parte use siempre la lista de partes.

[Block Name]

Information

REF No. 0000 - 0049

[Net Variation]

TNPH0907

SHEET2		CRNo:IC9401
SHEET3		CRNo:9401-9549
SHEET4		CRNo:9801-9899
SHEET5		CRNo:9001-9149
SHEET6		CRNo:9601-9659
		CRNo:9661-9699
		CRNo:9701-9799
SHEET7		CRNo:9151-9199
		CRNo:9201-9249
		SHEET3と共用
SHEET8		CRNo:9551-9599
		CRNo:9901-9979
		CRNo:9981-9989
SHEET9		CRNo:9301-9399

CONFIDENTIAL

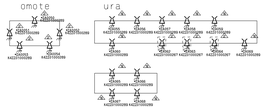
[Block Name]

Clip,Lag

REF No. 0050 - 0099

[Net Variation]

TNPH0907



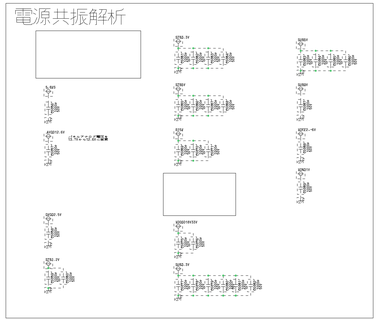
[Block Name]

Power line bypass C

REF No. 0050 - 0099

[Net Variation]

TNPH0907



PCB NAME	TNPH0907
PCB PART NO.	TNPH0907-1
ARTWORK No.	
BOARD	A15
DESIGNED BY	Kaneda
CHECKED BY	Tsuka
APPROVED BY	Tatano
CAD SYSTEM	Kaneda

SUB ASSEMBLY PART NO.	MODEL No.	PCB No.	IMPLEMENT DATE	PRODUCTION END NO.
TNPH0907CB	TC-L32X30	NLQQ	15-09-98	11-51-06
TNPH0907DK	TH-L32X30E	MCUA	15-09-17	
TNPH0907GK	TH-L32X30A	MCUA	15-09-17	
TNPH0907HK	TC-32X32B	PCUB	15-09-17	
TNPH0907XX	TH-L32X30W	MCUB	15-09-17	
TNPH0907QP	TH-L32X30S		15-09-17	
TNPH0907QK	TH-L32X30S		15-09-17	
TNPH0907GK	TH-L32X30Z		15-09-17	
TNPH0907UG	TC-L32X30X		15-10-20	

JOB NO.	MODEL No.	QTY.	CHANGE DETAILS	CHANGE DATE
A0	TNPH0907	Initial	Kaneda	15-09-17
A1	TNPH0907	Initial	Kaneda	15-09-17
A2	TNPH0907	Initial	Kaneda	15-09-17
A3	TNPH0907	Initial	Kaneda	15-09-17
A4	TNPH0907	Initial	Kaneda	15-09-17
A5	TNPH0907	Initial	Kaneda	15-09-17
A6	TNPH0907	Initial	Kaneda	15-09-17
A7	TNPH0907	Initial	Kaneda	15-09-17
A8	TNPH0907	Initial	Kaneda	15-09-17
A9	TNPH0907	Initial	Kaneda	15-09-17
A10	TNPH0907	Initial	Kaneda	15-09-17
A11	TNPH0907	Initial	Kaneda	15-09-17
A12	TNPH0907	Initial	Kaneda	15-09-17
A13	TNPH0907	Initial	Kaneda	15-09-17
A14	TNPH0907	Initial	Kaneda	15-09-17
A15	TNPH0907	Initial	Kaneda	15-09-17
A16	TNPH0907	Initial	Kaneda	15-09-17
A17	TNPH0907	Initial	Kaneda	15-09-17
A18	TNPH0907	Initial	Kaneda	15-09-17
A19	TNPH0907	Initial	Kaneda	15-09-17
A20	TNPH0907	Initial	Kaneda	15-09-17
A21	TNPH0907	Initial	Kaneda	15-09-17
A22	TNPH0907	Initial	Kaneda	15-09-17
A23	TNPH0907	Initial	Kaneda	15-09-17
A24	TNPH0907	Initial	Kaneda	15-09-17
A25	TNPH0907	Initial	Kaneda	15-09-17

PLOT	11/02/10	/ 02:19:41	Administrator
VARIATION			
SHEET	TNPH0907_A.cir/002.sht		

[Block Name]

IIC

REF No. 0900 - 0999

[Net Variation]

TNPH0907

IIC_BUS

PEAKS-SLD2

IIC_0 P_SCL0 P_SDA0 R0934 0R R0935 0R

IIC_1 P_SCL1 P_SDA1 R0936 0R R0937 0R

IIC_3 P_SCL3 P_SDA3 R0938 0R R0939 0R

STM IIC P_STWSCL P_STWSDA R0940 0R R0941 0R

DMD IIC_0 P_DMDSCL0 P_DMDSDA0 R0942 0R R0943 0R

DMD IIC_1 P_DMDSCL1 P_DMDSDA1

SUB3.3V R0920 2.2k R0902 2.2k R0924 2.2k R0910 EXB28V472JX

STB3.3V R0905 2.2k R0907 2.2k

R0921 22 R0920 22 R0923 22 R0922 22 R0925 22 R0924 22 R0931 22 R0930 22

TCON Model
- TCON DAC 0x74
- TCON DCDC 0x80
- TCON-SCL
- TCON-SDA

PEAKS EEPROM 0xA0
- PEAKS-EEP-SCL
- PEAKS-EEP-SDA

AV-SW 0x90
- AV-SW-SCL
- AV-SW-SDA

STM EEPROM 0xA0
- STW-EEP-SCL
- STW-EEP-SDA

R0904 0R R0906 0R BE,STMEEPROM共用化検討のための結線

R0927 22 R0926 22

Temp Sensor 0x92
- TMP-SENS-SCL
- TMP-SENS-SDA

R0929 22 R0928 22

FE(HK/China) 0x80
- FE-DTMB-SCL
- FE-DTMB-SDA

R0910 22 R0918 22

LCD PANEL
- LCD-SCL
- LCD-SDA

PANEL EEPROM 0xA0 TCON Model

ZWEI2 0xBA.DA

R0914 22 R0915 22 R0916 22 R0917 22

iPod Authentication Coprocessor 0x22
- IPOD-CP-SCL
- IPOD-CP-SDA

R0933 22 R0932 22

Terrestrial Tuner 0xC6
- TER-TUNER-SCL
- TER-TUNER-SDA

C0902 22p 50V C0903 22p 50V

VJ0902 VJ0903

Debug Monitor
- φ1.0mm/白品面

デバッグコネクタ

CN0101 K1A14A0024B BM14B-GHS-TBT(LF!SN)
- TP0919 TP0914 TP0918 TP0916
- PEAKS SDA3
- PEASK SCL3
- IDMD-SDA0!
- IDMD-SCL0!
- STW_SRQ
- SUB5V
- GND

工程調整用コネクタ

CN0100 K1A14A0024B BM14B-GHS-TBT(LF!SN)
- TP0903 TP0920 TP0900 TP0901 TP0921 TP0922 TP0904 TP0905 TP0906 TP0907 TP0908 TP0909 TP0910
- R-LED
- SDBOOT
- LCD_EEP_WP
- SBO
- SBI
- PEAKS-SDA0
- PEAKS SCL0
- PEAKS-SDA1
- PEAKS SCL1
- STW SDA
- STW-SCL
- GND
- STW_SRQ
- SUB5V

R0953 68 R0954 68 R0955 68 R0956 68 R0957 68 R0958 68 R0959 68

φ1.2mm/半田面

LCD-Peaks EEP WP TP0911 TP0912 LCD-GmX EEP WP

SUB3.3V DSA200100L Q0900 QCF000194 R0951 47k VJ0912 1k R0952 R0950 47k

R0945 1k R0947 0R R0948 0R R0949 0R R0946 1k R0944 100 R0911 47k STB3.3V

PEAKS-SLD2
- EEPROM_WP P_PORT36
- STW-EEP_WP P_STWGPIO8
- SDBOOT H:SDBOOT P_PORT01 L:Normal
- POS_R-LED_ON P_STWTIMC4
- LCD_EEP_WP TCON_EEP_WP
- P_SBO0 DEBUG SERIAL
- P_SBI0
- SRQ-STM P_STWGPIO3 H:Normal L:I2C STOP

LED207R2RA LED207R2GA LED207R2BA

LVDS REF

7/20 27kΩ 24kΩに変更

P_LVDSRREF RB306 2kE GUARD LVSS

LVDSRREF と他の信号ラインとの最小間隔によるパターンは避けて下さい。クロストークにより出力信号のJitterになります。可能であれば、GNDシールドを入れて下さい。

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T102-271	10/5/14	Kameoka	Hatano	Y
H2	T102-280	10/6/21	Kameoka	Hatano	Y
H3	T102-285	10/6/28	Kameoka	Hatano	Y
H4	T102-292	10/10/05	Kameoka	Hatano	Y
H5	T102-304	10/10/12	Kameoka	Hatano	Y
H6	T102-311	10/10/19	Kameoka	Hatano	Y
H7	T102-318	10/10/26	Kameoka	Hatano	Y
H8	T102-325	10/11/02	Kameoka	Hatano	Y
H9	T102-340	10/11/09	Kameoka	Hatano	Y
H10	T102-350	10/11/15	Kameoka	Hatano	Y
H11	T102-359	10/11/22	Kameoka	Hatano	Y
H12	T102-375	10/11/30	Kameoka	Hatano	Y
H13	T102-392	10/12/07	Kameoka	Hatano	Y
H14	T102-415	10/12/14	Kameoka	Hatano	Y
H15	T102-425	10/12/21	Kameoka	Hatano	Y
H16	T102-448	10/12/27	Kameoka	Hatano	Y
H17	T112-002	11/01/07	Kameoka	Hatano	Y
H18	T112-008	11/01/07	Akimoto	Hatano	Y
H19	T112-014	11/01/12	Akimoto	Hatano	Y
H20	T112-027	11/01/19	Kameoka	Hatano	Y
H21	T112-047	11/01/25	Kameoka	Hatano	Y
H22	T112-064	11/01/26	Saito.s	Hatano	Y
H23	T112-068	11/01/27	Akimoto	Hatano	Y
H24	T112-073	11/01/31	Saito.s	Hatano	Y
H25	T112-078	11/02/01	Arikawa	Hatano	Y

CONFIDENTIAL

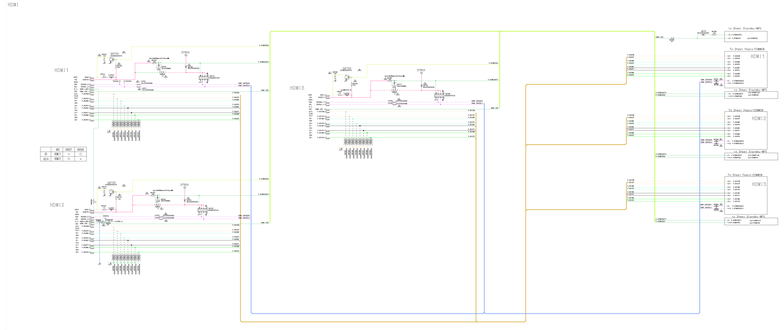
[Block Name]

HDMI Connector IF

REF No. 4500 - 4749

[Net Variation]

sLD2-4-LCD



[Block Name]

ARC

REF No. 4750 - 4799

[Net Variation]

ARC1

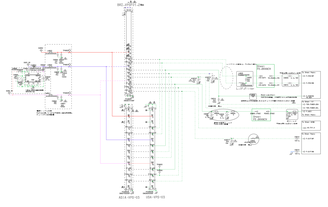
[Block Name]

Main Tuner

REF No. 4800 - 4899

[Net Variation]

GM/US



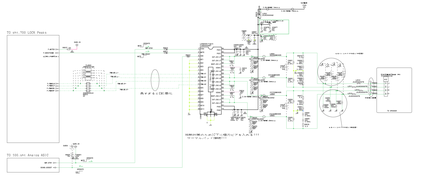
[Block Name]

Audio-AMP

REF No. 4900 - 4969

[Net Variation]

Common



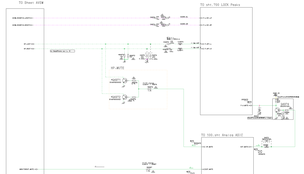
[Block Name]

Mute

REF No. 4970 - 4999

[Net Variation]

Common



[Block Name]

AVSW-Connection

REF No. 3050 - 3249

[Net Variation]

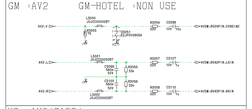
GM／US 64pin-LCD

[Block Name]

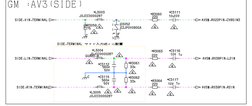
AVSW

VIDEO／AUDIO IN

US ：AV1　　US-HOTEL ：AV1
GM ：AV2　　GM-HOTEL ：NON USE



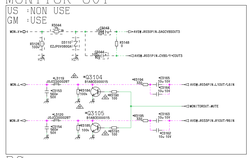
US ：AV2(SIDE)
GM ：AV3(SIDE)



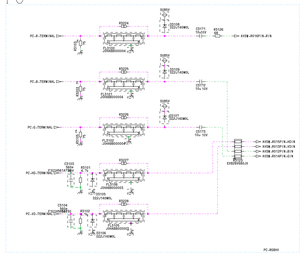
HP

MONITOR OUT

US ：NON USE
GM ：USE

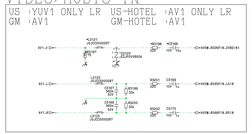


PC

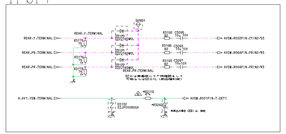


VIDEO／AUDIO IN

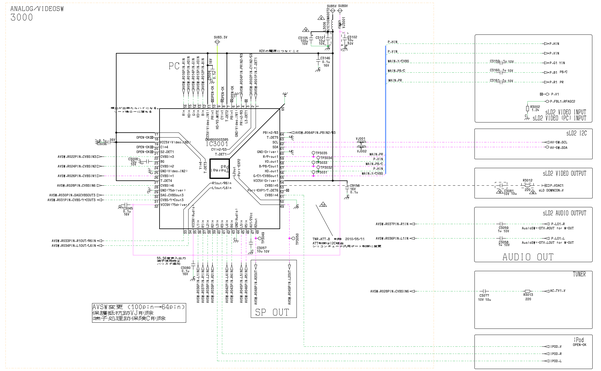
US ：YUV1 ONLY LR　US-HOTEL ：AV1 ONLY LR
GM ：AV1　　GM-HOTEL ：AV1



YPbPr



ANALOG/VIDEOSW
3000



BD No.	BOARD NO.	NOTE	COMMENTS	APPROVED	DATE
001	TY02-1000	Initial	Release	Takuma	1
002	TY02-1001	Initial	Release	Takuma	1
003	TY02-1002	Initial	Release	Takuma	1
004	TY02-1003	Initial	Release	Takuma	1
005	TY02-1004	Initial	Release	Takuma	1
006	TY02-1005	Initial	Release	Takuma	1
007	TY02-1006	Initial	Release	Takuma	1
008	TY02-1007	Initial	Release	Takuma	1
009	TY02-1008	Initial	Release	Takuma	1
010	TY02-1009	Initial	Release	Takuma	1
011	TY02-1010	Initial	Release	Takuma	1
012	TY02-1011	Initial	Release	Takuma	1
013	TY02-1012	Initial	Release	Takuma	1
014	TY02-1013	Initial	Release	Takuma	1
015	TY02-1014	Initial	Release	Takuma	1
016	TY02-1015	Initial	Release	Takuma	1
017	TY02-1016	Initial	Release	Takuma	1
018	TY02-1017	Initial	Release	Takuma	1
019	TY02-1018	Initial	Release	Takuma	1
020	TY02-1019	Initial	Release	Takuma	1
021	TY02-1020	Initial	Release	Takuma	1
022	TY02-1021	Initial	Release	Takuma	1
023	TY02-1022	Initial	Release	Takuma	1
024	TY02-1023	Initial	Release	Takuma	1
025	TY02-1024	Initial	Release	Takuma	1
026	TY02-1025	Initial	Release	Takuma	1
027	TY02-1026	Initial	Release	Takuma	1
028	TY02-1027	Initial	Release	Takuma	1
029	TY02-1028	Initial	Release	Takuma	1
030	TY02-1029	Initial	Release	Takuma	1

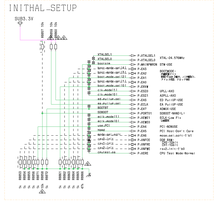
[Block Name]

Initial SETUP

REF No. 8000 - 8999

[Net Variation]

sLD2



CONFIDENTIAL

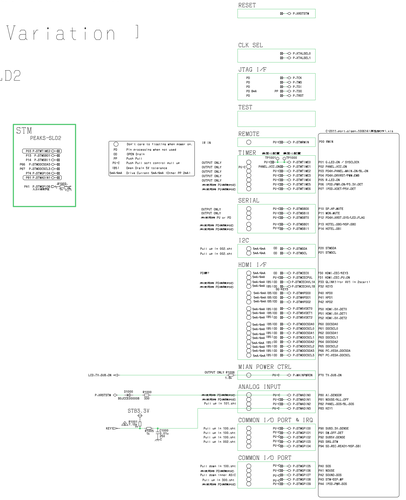
[Block Name]

STM Port

REF No. 1000 - 1299

[Net Variation]

LCD sLD2



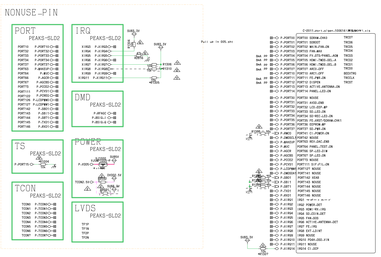
[Block Name]

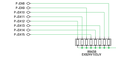
Peaks Port

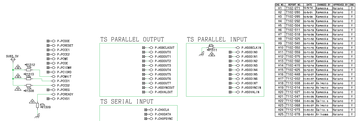
REF No. 1300 - 1499

[Net Variation]

LCD sLD2







PLOT[11-03-10 /02-19-50 Administrator
VARIATION[
SHEET[TNPH0907.A.clr-008.sht

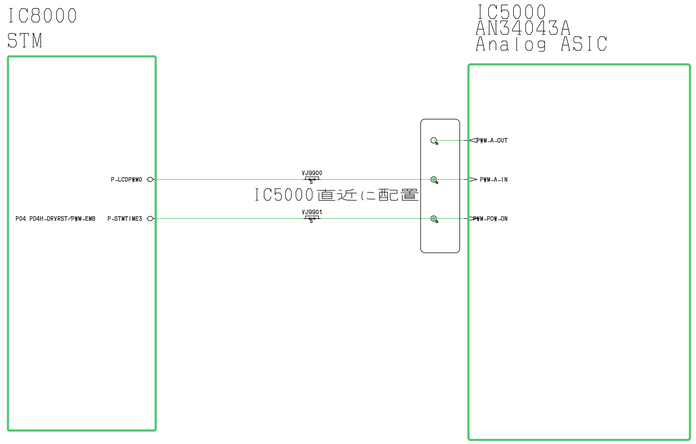
[Block Name]

PWM Control

REF No. 9900 - 9969

[Net Variation]

sLD2



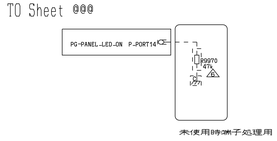
[Block Name]

INV-LED

REF No. 9970 - 9979

[Net Variation]

sLD2



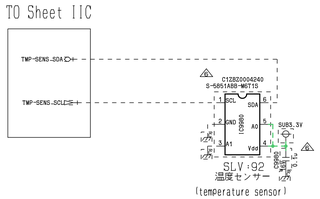
[Block Name]

Temp Sensor

REF No. 9980 - 9999

[Net Variation]

LCD sLD2



CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T1102-271	10/5/14	Kamaoka	Hatano	Y
H2	T1102-280	10/5/21	Kamaoka	Hatano	Y
H3	T1102-285	10/5/28	Kamaoka	Hatano	Y
H4	T1102-292	10/10/05	Kamaoka	Hatano	Y
H5	T1102-304	10/10/12	Kamaoka	Hatano	Y
H6	T1102-311	10/10/19	Kamaoka	Hatano	Y
H7	T1102-318	10/10/26	Kamaoka	Hatano	Y
H8	T1102-325	10/11/02	Kamaoka	Hatano	Y
H9	T1102-340	10/11/09	Kamaoka	Hatano	Y
H10	T1102-350	10/11/15	Kamaoka	Hatano	Y
H11	T1102-359	10/11/22	Kamaoka	Hatano	Y
H12	T1102-375	10/11/30	Kamaoka	Hatano	Y
H13	T1102-392	10/12/07	Kamaoka	Hatano	Y
H14	T1102-415	10/12/14	Kamaoka	Hatano	Y
H15	T1102-425	10/12/21	Kamaoka	Hatano	Y
H16	T1102-448	10/12/27	Kamaoka	Hatano	Y
H17	T1112-002	11/01/07	Kamaoka	Hatano	Y
H18	T1112-008	11/01/07	Akimoto	Hatano	Y
H19	T1112-014	11/01/12	Akimoto	Hatano	Y
H20	T1112-027	11/01/18	Kamaoka	Hatano	Y
H21	T1112-047	11/01/25	Kamaoka	Hatano	Y
H22	T1112-054	11/01/26	Saito.s	Hatano	Y
H23	T1112-068	11/01/27	Akimoto	Hatano	Y
H24	T1112-073	11/01/31	Saito.s	Hatano	Y
H25	T1112-078	11/02/01	Arikawa	Hatano	Y

[Block Name]

LVDS-IF

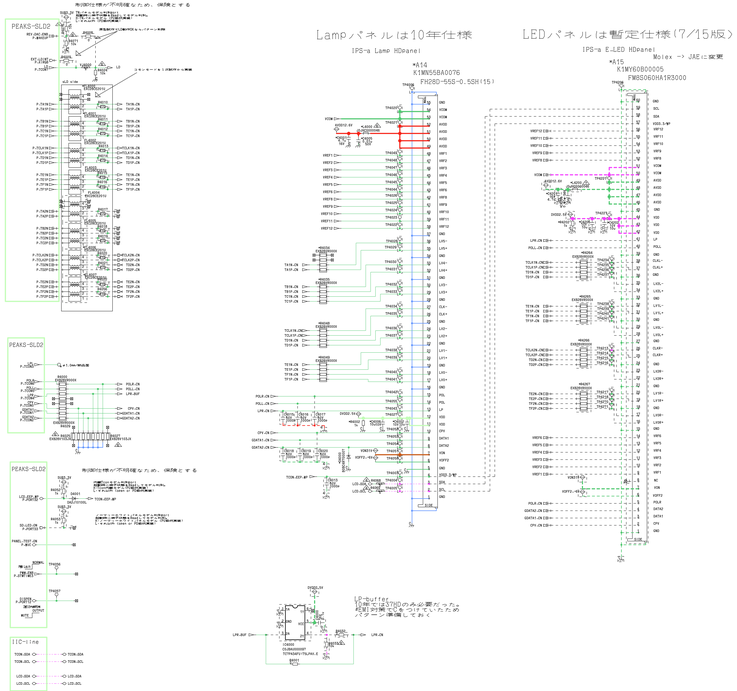
REF No. 4000 - 4119

[Net Variation]

AB : HD miniLVDS(Lamp)
AK : HD miniLVDS(LED)

SHEET009 : TCON
CRNo : 4000-4999

CONFIDENTIAL



[Block Name]

T-CON DAC

REF No. 4120 - 4149

[Net Variation]

Common

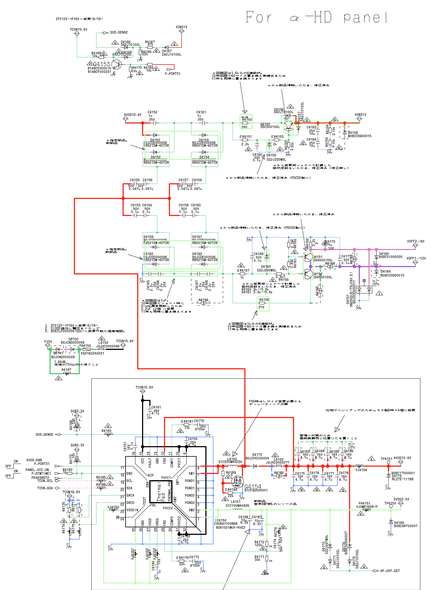
[Block Name]

T-CON DCDC

REF No. 4150 - 4199

[Net Variation]

Common



PLOT11/02/10 / 02-19-56 Administrator
VARIATION
SHEET:TNP0007_A.civ/S10.sht

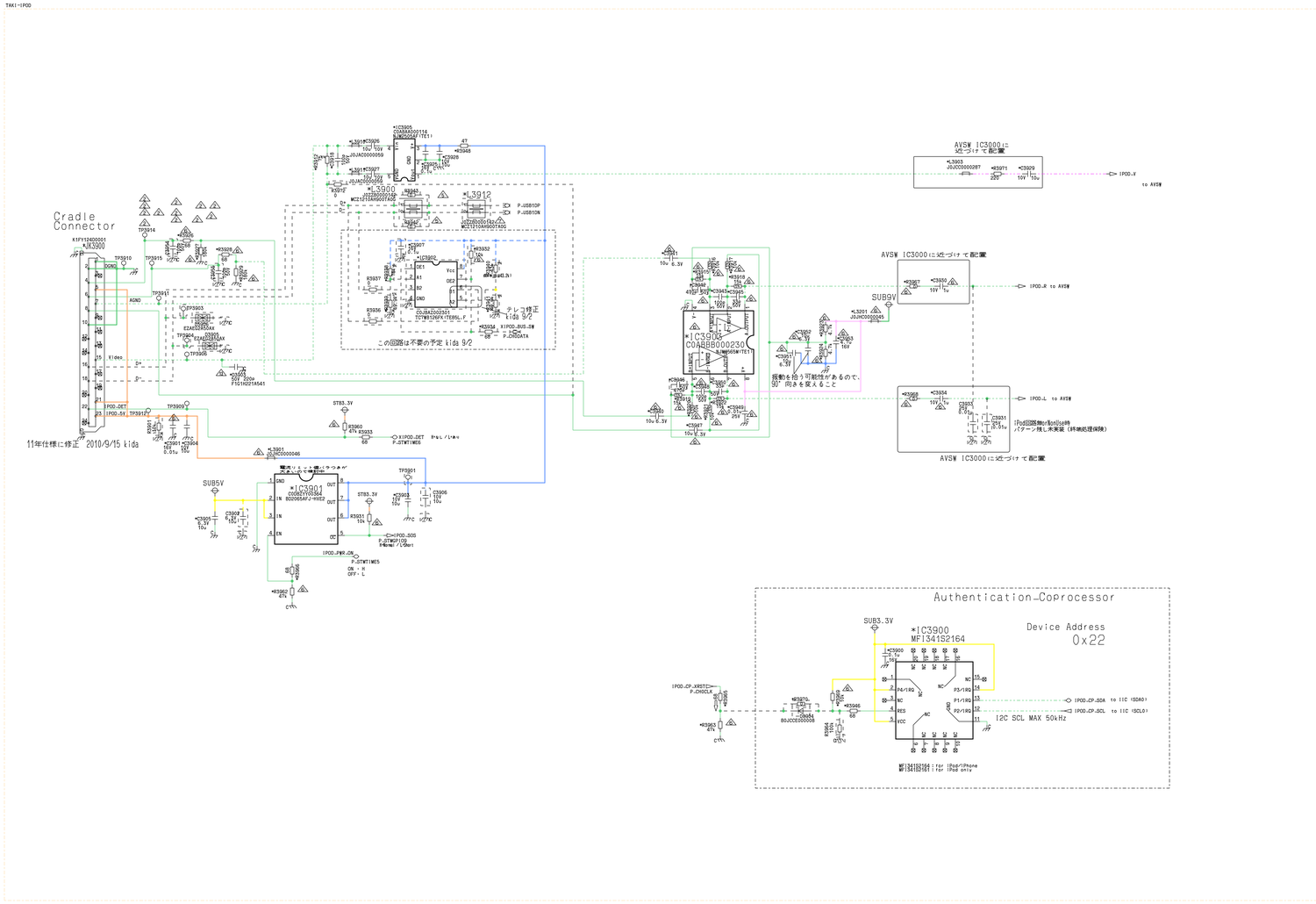
[Block Name]

iPod

REF No. 3900 - 3999

[Net Variation]

Common


TAKI-iPOD
Cradle Connector
*CN3900
11年仕様に修正 2010/9/15 kida
*IC3900
C0ABB8000230
MF1341S2164
Authentication_Coprocessor
Device Address
0x22
SUB3.3V
I2C SCL MAX 50kHz
*IC3901
C0GB01Y00064
BD2065AFJ-WYE2
SUB5V
*IC3910
C0ABB8000230
BA6565W(TE1)
SUBGV
*IC3905
C0AB30000116
BA6252FV(TE11)
*L3900
*L3912
*IC3907
*IC3920
*IC3921
*IC3922
*IC3923
*IC3924
*IC3925
*IC3926
*IC3927
*IC3928
*IC3929
*IC3930
*IC3931
*IC3932
*IC3933
*IC3934
*IC3935
*IC3936
*IC3937
*IC3938
*IC3939
*IC3940
*IC3941
*IC3942
*IC3943
*IC3944
*IC3945
*IC3946
*IC3947
*IC3948
*IC3949
*IC3950
*IC3951
*IC3952
*IC3953
*IC3954
*IC3955
*IC3956
*IC3957
*IC3958
*IC3959
*IC3960
*IC3961
*IC3962
*IC3963
*IC3964
*IC3965
*IC3966
*IC3967
*IC3968
*IC3969
*IC3970
*IC3971
*IC3972
*IC3973
*IC3974
*IC3975
*IC3976
*IC3977
*IC3978
*IC3979
*IC3980
*IC3981
*IC3982
*IC3983
*IC3984
*IC3985
*IC3986
*IC3987
*IC3988
*IC3989
*IC3990
*IC3991
*IC3992
*IC3993
*IC3994
*IC3995
*IC3996
*IC3997
*IC3998
*IC3999
*L3901
*L3902
*L3903
*L3904
*L3905
*L3906
*L3907
*L3908
*L3909
*L3910
*L3911
*L3912
*L3913
*L3914
*L3915
*L3916
*L3917
*L3918
*L3919
*L3920
*L3921
*L3922
*L3923
*L3924
*L3925
*L3926
*L3927
*L3928
*L3929
*L3930
*L3931
*L3932
*L3933
*L3934
*L3935
*L3936
*L3937
*L3938
*L3939
*L3940
*L3941
*L3942
*L3943
*L3944
*L3945
*L3946
*L3947
*L3948
*L3949
*L3950
*L3951
*L3952
*L3953
*L3954
*L3955
*L3956
*L3957
*L3958
*L3959
*L3960
*L3961
*L3962
*L3963
*L3964
*L3965
*L3966
*L3967
*L3968
*L3969
*L3970
*L3971
*L3972
*L3973
*L3974
*L3975
*L3976
*L3977
*L3978
*L3979
*L3980
*L3981
*L3982
*L3983
*L3984
*L3985
*L3986
*L3987
*L3988
*L3989
*L3990
*L3991
*L3992
*L3993
*L3994
*L3995
*L3996
*L3997
*L3998
*L3999
TP3900
TP3901
TP3902
TP3903
TP3904
TP3905
TP3906
TP3907
TP3908
TP3909
TP3910
TP3911
TP3912
TP3913
TP3914
TP3915
TP3916
TP3917
TP3918
TP3919
TP3920
TP3921
TP3922
TP3923
TP3924
TP3925
TP3926
TP3927
TP3928
TP3929
TP3930
TP3931
TP3932
TP3933
TP3934
TP3935
TP3936
TP3937
TP3938
TP3939
TP3940
TP3941
TP3942
TP3943
TP3944
TP3945
TP3946
TP3947
TP3948
TP3949
TP3950
TP3951
TP3952
TP3953
TP3954
TP3955
TP3956
TP3957
TP3958
TP3959
TP3960
TP3961
TP3962
TP3963
TP3964
TP3965
TP3966
TP3967
TP3968
TP3969
TP3970
TP3971
TP3972
TP3973
TP3974
TP3975
TP3976
TP3977
TP3978
TP3979
TP3980
TP3981
TP3982
TP3983
TP3984
TP3985
TP3986
TP3987
TP3988
TP3989
TP3990
TP3991
TP3992
TP3993
TP3994
TP3995
TP3996
TP3997
TP3998
TP3999
AVSW IC3000に近づけて配置
この回路は不要の予定 kida 9/2
テレコ修正 kida 9/2
接触を拾う可能性があるので、GND 向きを変える ことc
P-SWITIMES
P-SWITIMES
P-SWITIMES

[Block Name]

POWER_KEY_RESET

REF No. 1951 - 1999

[Net Variation]

US

電源キー長押しによるリセット回路

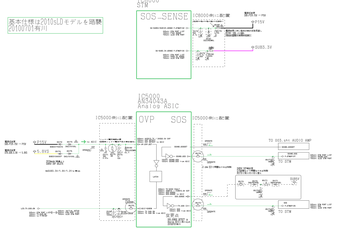
[Block Name]

SOS

REF No. 5170 - 5199

[Net Variation]

LCD



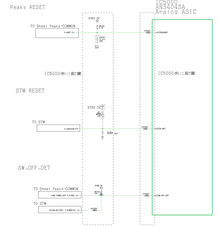
[Block Name]

POWER_DET

REF No. 5140 - 5169

[Net Variation]

LCD



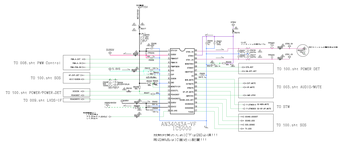
[Block Name]

Analog ASIC

REF No. 5000 - 5139

[Net Variation]

LCD



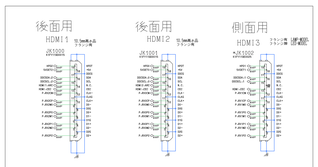
[Block Name]

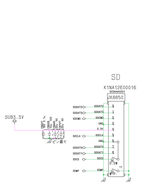
Terminal

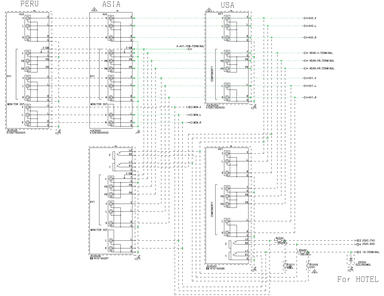
REF No. 1000 - 1099

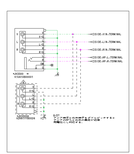
[Net Variation]

E3-US/GM-LCD









[Block Name]

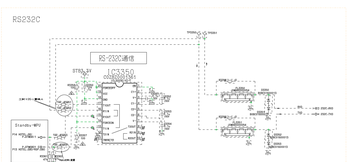
RS-232C

REF No. 3350 - 3399

[Net Variation]

Non Use sLD2

原型試作のポート処理をコピペ



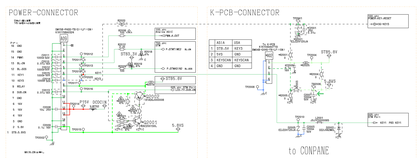
[Block Name]

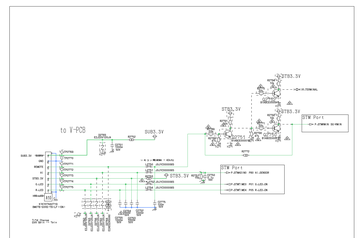
Set

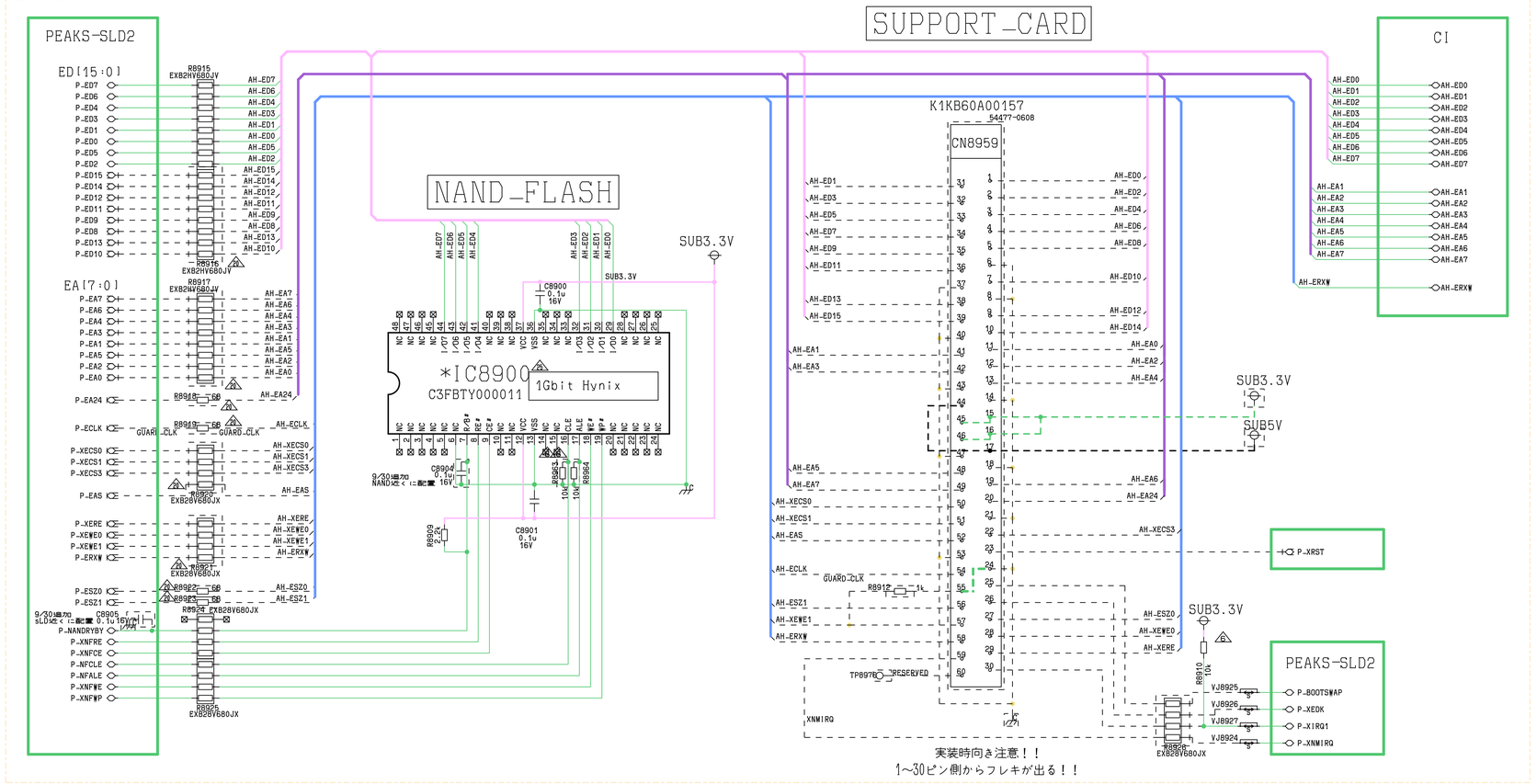
REF No. 2000 - 2499

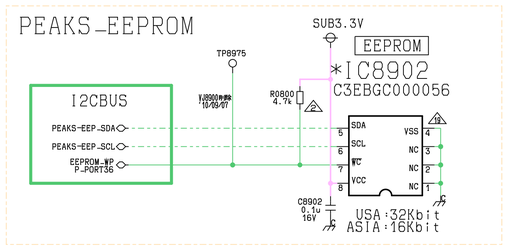
[Net Variation]

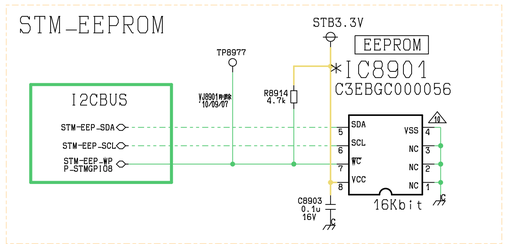
E3-US/GM-LCD

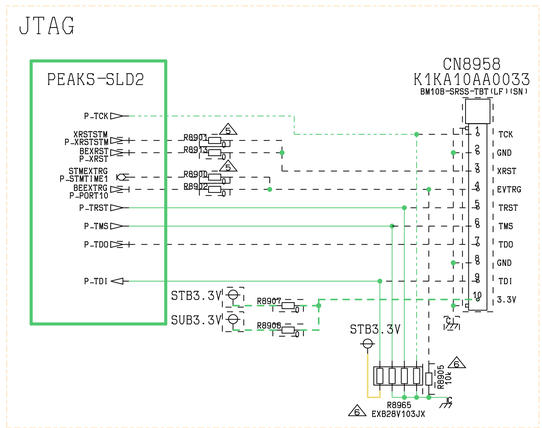












CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

CONFIDENTIAL

SHEETXXX:COMMON_NAND.SPC.JTAG.EEPROM
CRNo:8240-8299

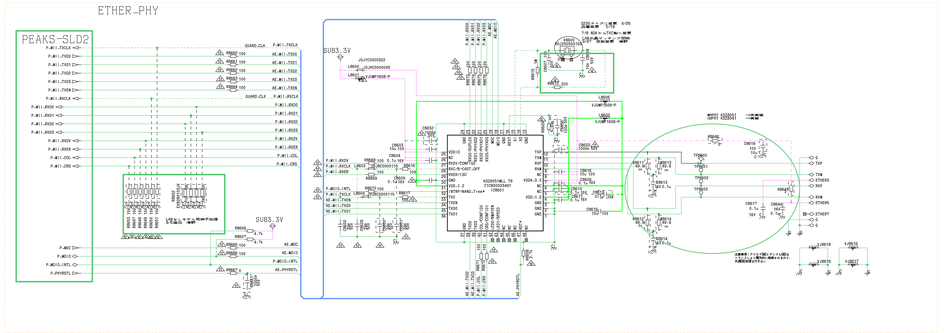
[Block Name]

LAN

REF No. 8000 - 8999

[Net Variation]

sLD2



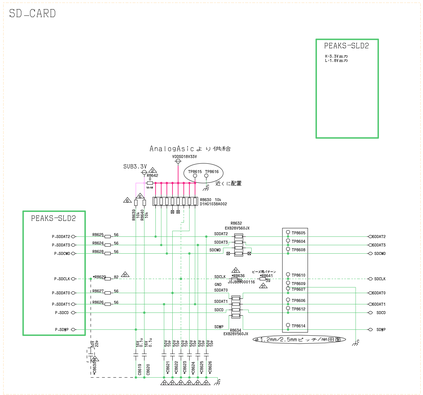
[Block Name]

SD

REF No. 8000 - 8999

[Net Variation]

sLD2



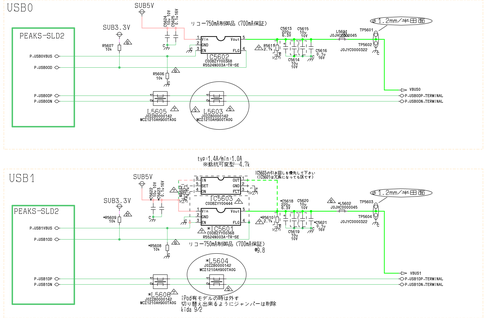
[Block Name]

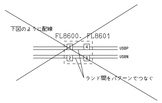
USB

REF No. 5600 - 5649

[Net Variation]

USB2





NO	MARK	QTY	CHANGE BY	APPROVE	DATE
1	71102-010	1	hiroki	kamura	1
42	71102-200	1	hiroki	kamura	1
43	71102-290	1	hiroki	kamura	1
44	71102-300	1	hiroki	kamura	1
45	71102-310	1	hiroki	kamura	1
46	71102-320	1	hiroki	kamura	1
47	71102-330	1	hiroki	kamura	1
48	71102-340	1	hiroki	kamura	1
49	71102-350	1	hiroki	kamura	1
410	71102-360	1	hiroki	kamura	1
411	71102-370	1	hiroki	kamura	1
412	71102-380	1	hiroki	kamura	1
413	71102-390	1	hiroki	kamura	1
414	71102-410	1	hiroki	kamura	1
415	71102-420	1	hiroki	kamura	1
416	71102-430	1	hiroki	kamura	1
417	71112-000	1	hiroki	kamura	1
418	71112-010	1	hiroki	kamura	1
419	71112-020	1	hiroki	kamura	1
420	71112-030	1	hiroki	kamura	1
421	71112-040	1	hiroki	kamura	1
422	71112-050	1	hiroki	kamura	1
423	71112-060	1	hiroki	kamura	1
424	71112-070	1	hiroki	kamura	1
425	71112-080	1	hiroki	kamura	1

CONFIDENTIAL

PLOT	11/02/10	/ 02:20:05	Administrator
VARIATION			
SHEET	TNPH0907.A.cir/302.sht		

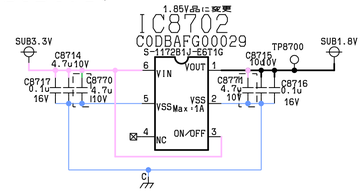
PANEL_DCDC

mini LVDS専用基板では使用しない

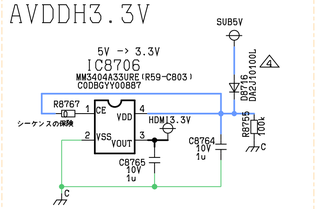
SUB9V

SUB9V reg削除（AnalogASICに内蔵）

SUB1.8V

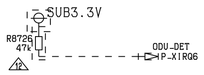


AVDDH3.3V



ODU15V

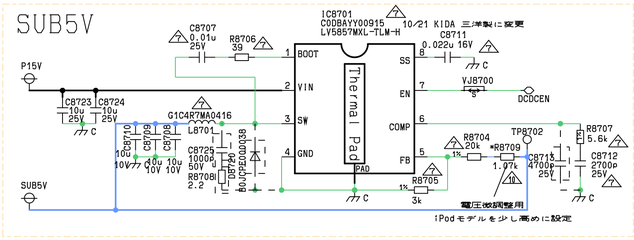
USA , ASIA はODU使用しない



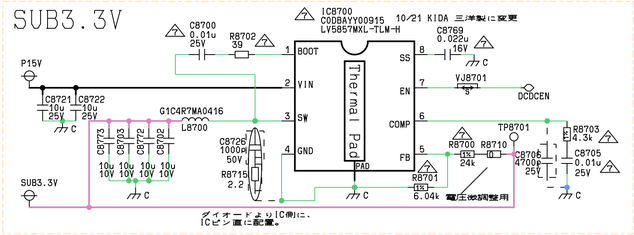
電源コネクタ

sht.101 Setへ移動

SUB5V



SUB3.3V



OVP_DET

sht.100 SOSへ統合

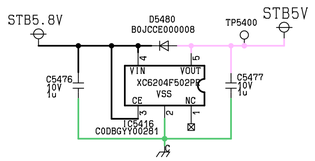
→ to ROHM ASIC

OVP検出回路削除

SOS_SENSE

sht.100 SOSへ統合

STB5V



CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

CONFIDENTIAL

SHEET Common-Power
CRNo:8700

PLOT 11/02/10 /02/20/08 Administrator
VARIATION
SHEET TNPH0907.A.cir/700.sht

LOCK/SLD2

CLK
AXI AF6 CB000 P_AXI
AXO AE6 CB000 P_AXO

USB CLK (reserve)
UXI U16 CB000
UXI V16 CB000 C
UXO U17 CB000
UXO V17 CB000
UXO V18 CB000

RESET
XRSTSTM AA9 CB000 P_XRSTSTM

RESET
XRST AF4 CB000 P_XRST

CLK SEL
XTALSEL0 AF3 CB000 P_XTALSEL0
XTALSEL1 AC5 CB000 P_XTALSEL1

JTAG I/F
TCK AA24 CB000 P_TCK
TMS AB24 CB000 P_TMS
TDI AC25 CB000 P_TDI
TDO AA23 CB000 P_TDO
TRST AC23 CB000 P_TRST

TEST
FPEN R12 CB000 C
TESTSEL T12 CB000

REMOTE
STMRMIN AB26 CB000 P_STMRMIN

TIMER
STMTIME0 AA21 CB000 P_STMTIME0
STMTIME1 AC26 CB000 P_STMTIME1
STMTIME2 AB22 CB000 P_STMTIME2
STMTIME3 AD26 CB000 P_STMTIME3
STMTIME4 AC22 CB000 P_STMTIME4
STMTIME5 AD25 CB000 P_STMTIME5
STMTIME6 AE25 CB000 P_STMTIME6

SERIAL
STMSB00 AD4 CB000 P_STMSB00
STMSB10 AB8 CB000 P_STMSB10
STMSBT0 AE5 CB000 P_STMSBT0
STMSB01 AE7 CB000 P_STMSB01
STMSB11 AF5 CB000 P_STMSB11

I2C
STMSDA AD5 CB000 P_STMSDA
STMSCL AA8 CB000 P_STMSCL

HDMI I/F
STMCEC0 AD22 CB000 P_STMCEC0
STMCECPUL AA18 CB000 P_STMCECPUL
STMCECAVL1A AE26 CB000 P_STMCECAVL1A
STMCECAVL1B AB21 CB000 P_STMCECAVL1B
STMHPD00 AC20 CB000 P_STMHPD00
STMHPD01 AE23 CB000 P_STMHPD01
STMHPD02 AF23 CB000 P_STMHPD02
STM5VDET0 AA19 CB000 P_STM5VDET0
STM5VDET1 AD23 CB000 P_STM5VDET1
STM5VDET2 AB19 CB000 P_STM5VDET2
STMDDCSDA0 AF25 CB000 P_STMDDCSDA0
STMDDCSCL0 AC21 CB000 P_STMDDCSCL0
STMDDCSDA1 AF24 CB000 P_STMDDCSDA1
STMDDCSCL1 AA20 CB000 P_STMDDCSCL1
STMDDCSDA2 AE24 CB000 P_STMDDCSDA2
STMDDCSCL2 AC24 CB000 P_STMDDCSCL2
STMDDCSDA3 AB20 CB000 P_STMDDCSDA3
STMDDCSCL3 AD24 CB000 P_STMDDCSCL3

MIAN POWER CTRL
MAINPWRON AE4 CB000 P_MAINPWRON

ANALOG INPUT
STMADIN0 AD3 CB000 P_STMADIN0
STMADIN1 AB7 CB000 P_STMADIN1
STMADIN2 AC6 CB000 P_STMADIN2
STMADIN3 AE3 CB000 P_STMADIN3

COMMON I/O PORT & IRQ
STMGPIO0 Y22 CB000 P_STMGPIO0
STMGPIO1 Y24 CB000 P_STMGPIO1
STMGPIO2 AB25 CB000 P_STMGPIO2
STMGPIO3 Y26 CB000 P_STMGPIO3
STMGPIO4 Y21 CB000 P_STMGPIO4

COMMON I/O PORT
STMGPIO5 Y25 CB000 P_STMGPIO5
STMGPIO6 AB23 CB000 P_STMGPIO6
STMGPIO7 AA25 CB000 P_STMGPIO7
STMGPIO8 AA26 CB000 P_STMGPIO8
STMGPIO9 AA22 CB000 P_STMGPIO9

SYSTEM BUS
ED0 D24 CB000 P_ED0
ED1 C26 CB000 P_ED1
ED2 G21 CB000 P_ED2
ED3 C25 CB000 P_ED3
ED4 B25 CB000 P_ED4
ED5 E23 CB000 P_ED5
ED6 B26 CB000 P_ED6
ED7 A25 CB000 P_ED7
ED8 C24 CB000 P_ED8
ED9 B24 CB000 P_ED9
ED10 F22 CB000 P_ED10
ED11 A24 CB000 P_ED11
ED12 C23 CB000 P_ED12
ED13 D23 CB000 P_ED13
ED14 B23 CB000 P_ED14
ED15 A23 CB000 P_ED15
EA0 K21 CB000 P_EA0
EA1 J26 CB000 P_EA1
EA2 K22 CB000 P_EA2
EA3 J25 CB000 P_EA3
EA4 J24 CB000 P_EA4
EA5 K23 CB000 P_EA5
EA6 H26 CB000 P_EA6
EA7 H25 CB000 P_EA7
EA8 J23 CB000 P_EA8
EA9 H24 CB000 P_EA9
EA10 J22 CB000 P_EA10
EA11 G26 CB000 P_EA11
EA12 G25 CB000 P_EA12
EA13 H23 CB000 P_EA13
EA14 H22 CB000 P_EA14
EA15 J21 CB000 P_EA15
EA24 G24 CB000 P_EA24
ECLK K24 CB000 P_ECLK
XERE F23 CB000 P_XERE
XEWE0 G22 CB000 P_XEWE0
XEWE1 E24 CB000 P_XEWE1
ERW D25 CB000 P_ERW
EAS H21 CB000 P_EAS
ESZ0 D26 CB000 P_ESZ0
ESZ1 E26 CB000 P_ESZ1
XEDK G23 CB000 P_XEDK
XECS0 F26 CB000 P_XECS0
XECS1 F24 CB000 P_XECS1
XECS3 E25 CB000 P_XECS3
BOOTSWAP F25 CB000 P_BOOTSWAP

NAND FLASH I/F
XNFCE E21 CB000 P_XNFCE
XNFRE B21 CB000 P_XNFRE
XNFWE F20 CB000 P_XNFWE
NFALE D21 CB000 P_NFALE
NFCLE C21 CB000 P_NFCLE
XNFWP E20 CB000 P_XNFWP
NANDRYBY A21 CB000 P_NANDRYBY

LOCK/SLD2
DDR3 I/F
MMCK A11 CB000 P_MMCK
MMCKX B11 CB000 P_MMCKX
MMDQ0 D8 CB000 P_MMDQ0
MMDQ1 E8 CB000 P_MMDQ1
MMDQ2 D7 CB000 P_MMDQ2
MMDQ3 D6 CB000 P_MMDQ3
MMDQ4 C6 CB000 P_MMDQ4
MMDQ5 A5 CB000 P_MMDQ5
MMDQ6 B5 CB000 P_MMDQ6
MMDQ7 E7 CB000 P_MMDQ7
MMDQ8 B8 CB000 P_MMDQ8
MMDQ9 A8 CB000 P_MMDQ9
MMDQ10 A9 CB000 P_MMDQ10
MMDQ11 B9 CB000 P_MMDQ11
MMDQ12 D9 CB000 P_MMDQ12
MMDQ13 E10 CB000 P_MMDQ13
MMDQ14 F10 CB000 P_MMDQ14
MMDQ15 E11 CB000 P_MMDQ15
MMDQ16 C19 CB000 P_MMDQ16
MMDQ17 B20 CB000 P_MMDQ17
MMDQ18 E18 CB000 P_MMDQ18
MMDQ19 F18 CB000 P_MMDQ19
MMDQ20 A20 CB000 P_MMDQ20
MMDQ21 D19 CB000 P_MMDQ21
MMDQ22 E19 CB000 P_MMDQ22
MMDQ23 C20 CB000 P_MMDQ23
MMDQ24 F14 CB000 P_MMDQ24
MMDQ25 E15 CB000 P_MMDQ25
MMDQ26 E16 CB000 P_MMDQ26
MMDQ27 C17 CB000 P_MMDQ27
MMDQ28 D17 CB000 P_MMDQ28
MMDQ29 C16 CB000 P_MMDQ29
MMDQ30 B17 CB000 P_MMDQ30
MMDQ31 A17 CB000 P_MMDQ31
MMDQS0 B6 CB000 P_MMDQS0
MMDQS1 A7 CB000 P_MMDQS1
MMDQS2 A19 CB000 P_MMDQS2
MMDQS3 B18 CB000 P_MMDQS3
MMXDQS0 A6 CB000 P_MMXDQS0
MMXDQS1 B7 CB000 P_MMXDQS1
MMXDQS2 B19 CB000 P_MMXDQS2
MMXDQS3 A18 CB000 P_MMXDQS3
MMDM0 C7 CB000 P_MMDM0
MMDM1 C8 CB000 P_MMDM1
MMDM2 D18 CB000 P_MMDM2
MMDM3 C18 CB000 P_MMDM3
MMA0 D14 CB000 P_MMA0
MMA1 C10 CB000 P_MMA1
MMA2 D11 CB000 P_MMA2
MMA3 A12 CB000 P_MMA3
MMA4 F12 CB000 P_MMA4
MMA5 A13 CB000 P_MMA5
MMA6 D10 CB000 P_MMA6
MMA7 E12 CB000 P_MMA7
MMA8 B10 CB000 P_MMA8
MMA9 C12 CB000 P_MMA9
MMA10 B14 CB000 P_MMA10
MMA11 A10 CB000 P_MMA11
MMA12 E14 CB000 P_MMA12
MMA13 D12 CB000 P_MMA13
MMBA0 D15 CB000 P_MMBA0
MMBA1 F11 CB000 P_MMBA1
MMBA2 A15 CB000 P_MMBA2
MMXCS0 C14 CB000 P_MMXCS0
MMXCS1 B15 CB000 P_MMXCS1
MMXRAS C13 CB000 P_MMXRAS
MMXCAS A14 CB000 P_MMXCAS
MMXWE C15 CB000 P_MMXWE
MMCKE0 F13 CB000 P_MMCKE0
MMCKE1 B16 CB000 P_MMCKE1
MMODT0 B13 CB000 P_MMODT0
MMODT1 A16 CB000 P_MMODT1
MMXRESET B12 CB000 P_MMXRESET

LAN CON I/F
MII_COL AA3 CB000 P_MII_COL
MII_CRS W5 CB000 P_MII_CRS
MII_RXCLK AA5 CB000 P_MII_RXCLK
MII_RXD0 AD2 CB000 P_MII_RXD0
MII_RXD1 AA4 CB000 P_MII_RXD1
MII_RXD2 AE2 CB000 P_MII_RXD2
MII_RXD3 AE1 CB000 P_MII_RXD3
MII_RXDV AD1 CB000 P_MII_RXDV
MII_RXER AC3 CB000 P_MII_RXER
MII_TXCLK AC1 CB000 P_MII_TXCLK
MII_TXD0 AB3 CB000 P_MII_TXD0
MII_TXD1 W6 CB000 P_MII_TXD1
MII_TXD2 AB2 CB000 P_MII_TXD2
MII_TXD3 AB1 CB000 P_MII_TXD3
MII_TXEN Y6 CB000 P_MII_TXEN
MDC Y5 CB000 P_MDC
MDIO AF2 CB000 P_MDIO
MDIO_INTL AC2 CB000 P_MDIO_INTL
PHYRSTL AA2 CB000 P_PHYRSTL
WAKEUP W4 CB000 P_WAKEUP
WUC Y4 CB000 P_WUC

CI I/F
PCDOE N21 CB000 P_PCDOE
PCRESET P23 CB000 P_PCRESET
PCCE1 P22 CB000 P_PCCE1
PCCE2 P26 CB000 P_PCCE2
PCWE N22 CB000 P_PCWE
PCOE N26 CB000 P_PCOE
PCIOWR P21 CB000 P_PCIOWR
PCIORD P25 CB000 P_PCIORD
PCWAIT M26 CB000 P_PCWAIT
PCCD1 N23 CB000 P_PCCD1
PCCD2 M24 CB000 P_PCCD2
PCREG N25 CB000 P_PCREG
PCREADY M25 CB000 P_PCREADY
PCVS1 N24 CB000 P_PCVS1

USB POWER CTRL
USB0VBUS U22 CB000 P_USB0VBUS
USB0OD T24 CB000 P_USB0OD
USB1VBUS V21 CB000 P_USB1VBUS
USB1OD U24 CB000 P_USB1OD

SD CARD I/F
SDCLK V24 CB000 P_SDCLK
SDCMD W26 CB000 P_SDCMD
SDDAT0 V25 CB000 P_SDDAT0
SDDAT1 V26 CB000 P_SDDAT1
SDDAT2 W24 CB000 P_SDDAT2
SDDAT3 W25 CB000 P_SDDAT3
SDCD V22 CB000 P_SDCD
SDWP V23 CB000 P_SDWP
SDVOLC W21 CB000 P_SDVOLC

TS SERIAL INPUT
CHOCLK AB6 CB000 P_CHOCLK
CHODATA AC4 CB000 P_CHODATA
CHOPSYNC AB4 CB000 P_CHOPSYNC
CHOVAL AB5 CB000 P_CHOVAL

TS PARALLEL INPUT
HSOBCLKIN M23 CB000 P_HSOBCLKIN
HSODIN0 L25 CB000 P_HSODIN0
HSODIN1 L22 CB000 P_HSODIN1
HSODIN2 L23 CB000 P_HSODIN2
HSODIN3 M22 CB000 P_HSODIN3
HSODIN4 L24 CB000 P_HSODIN4
HSODIN5 K26 CB000 P_HSODIN5
HSODIN6 M21 CB000 P_HSODIN6
HSODIN7 K25 CB000 P_HSODIN7
HSOSYNCIN L21 CB000 P_HSOSYNCIN
HSOVALIN L26 CB000 P_HSOVALIN

TS PARALLEL OUTPUT
HSBCLKOUT P24 CB000 P_HSBCLKOUT
HSDOUT0 R24 CB000 P_HSDOUT0
HSDOUT1 R21 CB000 P_HSDOUT1
HSDOUT2 T21 CB000 P_HSDOUT2
HSDOUT3 R23 CB000 P_HSDOUT3
HSDOUT4 T23 CB000 P_HSDOUT4
HSDOUT5 R25 CB000 P_HSDOUT5
HSDOUT6 R22 CB000 P_HSDOUT6
HSDOUT7 R26 CB000 P_HSDOUT7
HSSYNCOUT U21 CB000 P_HSSYNCOUT
HSVALOUT T22 CB000 P_HSVALOUT

TUNER CTRL
AGCI AE10 CB000 P_AGCI
AGCR AF10 CB000 P_AGCR
AGCBS AD10 CB000 P_AGCBS

VIDEO (PC) INPUT
HIN AC10 CB000 P_HIN
VIN AA10 CB000 P_VIN

AUDIO OUTPUT
A_MUTE AE12 CB000 P_A_MUTE
IECOUT AA11 CB000 P_IECOUT
NSHUTDOWN AA12 CB000 P_NSHUTDOWN
MUTEB AD12 CB000 P_MUTEB

TCON
TCON0 C3 CB000 P_TCON0
TCON1 A3 CB000 P_TCON1
TCON2 B3 CB000 P_TCON2
TCON3 A2 CB000 P_TCON3
TCON4 D4 CB000 P_TCON4
TCON5 B2 CB000 P_TCON5
TCON6 C4 CB000 P_TCON6
TCON7 B1 CB000 P_TCON7

PANEL PWM
LCDPWM0 D3 CB000 P_LCDPWM0
LCDPWM1 C2 CB000 P_LCDPWM1

I2C
SDA0 B4 CB000 P_SDA0
SCL0 A4 CB000 P_SCL0
SDA1 W22 CB000 P_SDA1
SCL1 Y23 CB000 P_SCL1
SDA3 AB11 CB000 P_SDA3
SCL3 AF12 CB000 P_SCL3

TUNER I2C
DMDSDA0 AC11 CB000 P_DMDSDA0
DMDSCL0 AB10 CB000 P_DMDSCL0
DMDSDA1 AD11 CB000 P_DMDSDA1
DMDSCL1 AE11 CB000 P_DMDSCL1

SERIAL
SBO0 D22 CB000 P_SBO0
SBI0 F21 CB000 P_SBI0
SBO1 D1 CB000 P_SBO1
SBI1 E3 CB000 P_SBI1
SBT1 E2 CB000 P_SBT1
TXD1 E5 CB000 P_TXD1
RXD1 C1 CB000 P_RXD1

IR
RMC0 E4 CB000 P_RMC0

NMI IRQ
XNMIRQ D2 CB000 P_XNMIRQ

COMMON I/O PORT & IRQ
XIRQ1 E1 CB000 P_XIRQ1
XIRQ2 V2 CB000 P_XIRQ2
XIRQ3 V3 CB000 P_XIRQ3
XIRQ4 U6 CB000 P_XIRQ4
XIRQ5 Y1 CB000 P_XIRQ5
XIRQ6 T6 CB000 P_XIRQ6
XIRQ7 U5 CB000 P_XIRQ7
XIRQ8 V4 CB000 P_XIRQ8
XIRQ9 T5 CB000 P_XIRQ9
XIRQ10 W3 CB000 P_XIRQ10
XIRQ11 W2 CB000 P_XIRQ11
XIRQ14 Y1 CB000 P_XIRQ14

COMMON I/O PORT
PORT00 M6 CB000 P_PORT00
PORT01 N1 CB000 P_PORT01
PORT02 N4 CB000 P_PORT02
PORT03 N2 CB000 P_PORT03
PORT04 N3 CB000 P_PORT04
PORT05 N6 CB000 P_PORT05
PORT06 P1 CB000 P_PORT06
PORT07 N5 CB000 P_PORT07
PORT10 P2 CB000 P_PORT10
PORT11 P3 CB000 P_PORT11
PORT12 R1 CB000 P_PORT12
PORT13 P4 CB000 P_PORT13
PORT14 R2 CB000 P_PORT14
PORT15 P5 CB000 P_PORT15
PORT16 R3 CB000 P_PORT16
PORT17 P6 CB000 P_PORT17
PORT20 T1 CB000 P_PORT20
PORT21 R5 CB000 P_PORT21
PORT22 T2 CB000 P_PORT22
PORT23 T3 CB000 P_PORT23
PORT24 R6 CB000 P_PORT24
PORT25 U1 CB000 P_PORT25
PORT26 R4 CB000 P_PORT26
PORT27 U2 CB000 P_PORT27
PORT30 U3 CB000 P_PORT30
PORT31 T4 CB000 P_PORT31
PORT32 B22 CB000 P_PORT32
PORT33 E22 CB000 P_PORT33
PORT34 A22 CB000 P_PORT34
PORT35 C22 CB000 P_PORT35
PORT36 V1 CB000 P_PORT36
PORT37 U4 CB000 P_PORT37

LVDS I/F
TA1P M5 CB000 P_TA1P
TA1N M4 CB000 P_TA1N
TB1P M1 CB000 P_TB1P
TB1N M2 CB000 P_TB1N
TC1P L3 CB000 P_TC1P
TC1N M3 CB000 P_TC1N
TD1P L5 CB000 P_TD1P
TD1N L6 CB000 P_TD1N
TE1P K2 CB000 P_TE1P
TE1N K1 CB000 P_TE1N
TF1P K5 CB000 P_TF1P
TF1N K6 CB000 P_TF1N
TCLK1P L2 CB000 P_TCLK1P
TCLK1N L1 CB000 P_TCLK1N
TA2P J1 CB000 P_TA2P
TA2N J2 CB000 P_TA2N
TB2P H3 CB000 P_TB2P
TB2N J3 CB000 P_TB2N
TC2P H2 CB000 P_TC2P
TC2N H1 CB000 P_TC2N
TD2P G1 CB000 P_TD2P
TD2N G2 CB000 P_TD2N
TE2P F3 CB000 P_TE2P
TE2N G3 CB000 P_TE2N
TF2P F2 CB000 P_TF2P
TF2N F1 CB000 P_TF2N
TCLK2P H5 CB000 P_TCLK2P
TCLK2N J5 CB000 P_TCLK2N

TEST
T_LON R16 CB000
T_LOP P16 CB000

DDR3 REF
MMRODT M9 CB000 P_MMRODT
MMVCAL L9 CB000 P_MMVCAL
MMVCAL L10 CB000
MMVREF0 F8 CB000 P_MMVREF0
MMVREF1 F16 CB000 P_MMVREF1

TUNER I/F
FEAINP AF8 CB000 GUARD P_FEAINP
FEAINN AE8 CB000 GUARD P_FEAINN
RFAGC AC13 CB000 P_RFAGC
BSIQ-I AD8 CB000 GUARD P_BSIQ-I
BSIQ-Q AC8 CB000 GUARD P_BSIQ-Q

SIF I/F
SIFINP AC9 CB000 GUARD P_SIFINP
SIFINN AB9 CB000 GUARD P_SIFINN

AUDIO PWM
PWMOLP V5 CB000 P_PWMOLP
PWMOLN V6 CB000 P_PWMOLN
PWMORP Y3 CB000 P_PWMORP
PWMORN Y2 CB000 P_PWMORN

USB I/F
USB0DP T25 CB000 P_USB0DP
USB0DN T26 CB000 P_USB0DN
USB1DP U25 CB000 P_USB1DP
USB1DN U26 CB000 P_USB1DN

HDMI I/F
RX0CP AD15 CB000 P_RX0CP
RX0CM AE14 CB000 P_RX0CM
RX0P0 AE15 CB000 P_RX0P0
RX0M0 AF15 CB000 P_RX0M0
RX0P1 AF16 CB000 P_RX0P1
RX0M1 AE16 CB000 P_RX0M1
RX0P2 AD17 CB000 P_RX0P2
RX0M2 AD16 CB000 P_RX0M2
RX1CP AE17 CB000 P_RX1CP
RX1CM AF17 CB000 P_RX1CM
RX1P0 AF18 CB000 P_RX1P0
RX1M0 AE18 CB000 P_RX1M0
RX1P1 AD19 CB000 P_RX1P1
RX1M1 AD18 CB000 P_RX1M1
RX1P2 AE19 CB000 P_RX1P2
RX1M2 AF19 CB000 P_RX1M2
RX2CP AF20 CB000 P_RX2CP
RX2CM AE20 CB000 P_RX2CM
RX2P0 AD21 CB000 P_RX2P0
RX2M0 AD20 CB000 P_RX2M0
RX2P1 AE21 CB000 P_RX2P1
RX2M1 AF21 CB000 P_RX2M1
RX2P2 AF22 CB000 P_RX2P2
RX2M2 AE22 CB000 P_RX2M2

VIDEO INPUT
V1 AB14 CB000 P_V1
R1 AB16 CB000 P_R1
G1 AB15 CB000 P_G1
B1 AA16 CB000 P_B1
VC1-N AA15 CB000 P_VC1_N
VC4-N AA14 CB000 P_VC4_N
FBL1_RFAGC2 AF14 CB000 P_FBL1_RFAGC2

VIDEO OUTPUT
VDAC1 AE9 CB000 P_VDAC1

AUDIO INPUT
LIN1-LP AC14 CB000 GUARD-SL GUARD-SR P_LIN1-LP
LIN1-RP AA13 CB000 P_LIN1-RP

AUDIO OUTPUT
LO1-L AF13 CB000 GUARD-SL P_LO1-L
LO1-R AB13 CB000 GUARD-SR P_LO1-R
LO2-L AC12 CB000 GUARD-SL P_LO2-L
LO2-R AB12 CB000 GUARD-SR P_LO2-R
HP1-L AD13 CB000 GUARD-SL P_HP1-L
HP1-R AE13 CB000 GUARD-SR P_HP1-R

LOCK/SLD2
V-ADC REF
VREFHO AB17 CB000 P_VREFHO
VREFLO AA17 CB000 P_VREFLO

SIF-ADC REF (DMD)
VREFHSIF AD7 CB000 P_VREFHSIF
VREFLSIF AC7 CB000 P_VREFLSIF

A-ADC REF
VREF1V5 AF11 CB000 P_VREF1V5

V-DAC REF
VCOMP AF9 CB000 GUARD-S P_VCOMP

USB REF
USB0RREF R18 CB000 GUARD P_USB0RREF
USB1RREF R17 CB000 GUARD P_USB1RREF

LVDS REF
LVDSRREF L4 CB000 P_LVDSRREF

LOCK/SLD2
STM POWER 3.3V
VDD33STM AF7 CB000 P_VDD33STM
STMADAVDD33 AA7 CB000
STMADAVSS AA6 CB000 C

STM POWER 1.2V
VDD12STM AD9 CB000 P_VDD12STM

MAIN POWER 1.2V
VDD12 J16 CB000 SUB1.2V
VDD12 K16 CB000
VDD12 L15 CB000
VDD12 M14 CB000
VDD12 M15 CB000
VDD12 N13 CB000
VDD12 N14 CB000
VDD12 N15 CB000
VDD12 P13 CB000
VDD12 P14 CB000
VDD12 P15 CB000
VDDUSB12 M18 CB000
LVVDD12 J6 CB000
VDDR12 J13 CB000 SUB1.2V
VDDR12 K13 CB000
VDDR12 L12 CB000
VDDA12 J11 CB000 P_VDDA12
VDDA12 K11 CB000

MAIN POWER 1.8V
VDDAVAD18 U15 CB000 P_VDD18
VDDAVAD18 V15 CB000
AVDDH18 AC18 CB000
AVDDH18 AC19 CB000
AVDDSIF18 V14 CB000 P_AVDDSIF18
AVSSV T15 CB000
AVSSV T16 CB000
AVSSV T17 CB000 C
AVSSSIF T13 CB000
AVSSSIF U13 CB000 C

MAIN POWER SD-CARD
VDDSD18-33 L17 CB000 P_VDDSD18-33
VDDSD18-33 L18 CB000

MAIN POWER TCON
VDD25TCON J9 CB000 P_VDD25TCON
VDD25TCON K9 CB000
VDD25TCON K10 CB000

MAIN POWER 1.5V
VDD1015 F7 CB000 SUB1.5V
VDD1015 F9 CB000
VDD1015 F15 CB000
VDD1015 F17 CB000
VDDIOCK15 G7 CB000 P_VDDIOCK15

MAIN POWER 3.3V
VDD33 P9 CB000 P_VDD33
VDD33 P10 CB000
VDD33 P11 CB000
DPAVDD33 J12 CB000
DPAVDD33 K12 CB000
AVDDH33 AC17 CB000 HDMI3.3V
LVVDD33 F4 CB000 SUB3.3V
LVVDD33 G4 CB000
9/14 ハム音対策にて追加
AVDDV33 U12 CB000 P_AVDD33
L8016 JOJ2000200287
AVDDEVE33 V12 CB000
C8054 0.1u 16V
AVDDHP33 V13 CB000 P_AVDD33
AVDDPLLA_33 R10 CB000
AVDDPLLD1_33 R9 CB000
AVDDPWM33 AA1 CB000
AVDDPLLD2_33 N16 CB000
AVDDAPUSB33_0 N18 CB000
AVDDAPUSB33_1 P17 CB000
AVDDAPUSB33_1 P18 CB000
AVDDADA33 V10 CB000 P_AVDDADA33
AVDDADA33 V11 CB000
LVVSS G6 CB000
LVVSS H4 CB000
LVVSS J4 CB000
LVVSS K3 CB000
LVVSS K4 CB000 C
AVSSEVE T14 CB000
AVSSEVE U14 CB000 C
AVSSHP R14 CB000 C
AVSSPWM U9 CB000
AVSSPWM U10 CB000
AVSSPWM Y9 CB000 C
AVSSAPUSB T18 CB000
AVSSAPUSB U18 CB000
AVSSAPUSB U23 CB000 C
AVSSADA R15 CB000 C

TOLERANT REFERENCE
VDD5 J17 CB000 P_VDD5
VDD5 J18 CB000
VDD5 K18 CB000

VSS GND
MN2WS0175E
VSS A1 CB000
VSS A26 CB000
VSS C5 CB000
VSS C9 CB000
VSS C11 CB000
VSS D5 CB000
VSS D13 CB000
VSS D16 CB000
VSS D20 CB000
VSS E6 CB000
VSS E9 CB000
VSS E13 CB000
VSS E17 CB000
VSS F5 CB000
VSS F6 CB000
VSS F19 CB000
VSS G5 CB000
VSS H6 CB000
VSS J10 CB000
VSS J14 CB000
VSS J15 CB000
VSS K14 CB000
VSS K15 CB000
VSS K17 CB000
VSS L11 CB000
VSS L13 CB000
VSS L14 CB000
VSS L16 CB000
VSS M10 CB000
VSS M11 CB000
VSS M12 CB000
VSS M13 CB000
VSS M16 CB000
VSS M17 CB000
VSS N9 CB000
VSS N10 CB000
VSS N11 CB000
VSS N12 CB000
VSS N17 CB000
VSS P12 CB000
VSS R11 CB000
VSS R13 CB000
VSS T9 CB000
VSS T10 CB000
VSS T11 CB000
VSS U11 CB000
VSS W23 CB000
VSS AB18 CB000
VSS AC15 CB000
VSS AC16 CB000
VSS AD6 CB000
VSS AF1 CB000
VSS AF26 CB000 C

NC
NC AD14 CB000

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

SHEET CHANGE INFORMATION
SHEET NO. SLD2-700
SHEET Ver. 1.20
SHEET Mng. morii
FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

CONFIDENTIAL

SHEET700 : sLD2
CRNo : 8000

PLOT 11/02/10 / 02:20:11 | Administrator
VARIATION
SHEET TNPH0907.A.cir/701.sht

LOCK/SLD2

PEAKS-sLD2 パスコン

SUB1.2V 9/7 VJUMP削除
2730mA
5/27 0Ω化
8/6 VJUMP化
C8002 10u 10V
C8005 0.1u 16V
C8007 0.1u 16V
C8008 1000K 50V
C8001 10u 10V
C8004 0.1u 16V
VDD12 SUB1.2V
1.25V_SUB
VDDUSB SUB1.2V
C8006 0.1u 16V
LVVDD12 SUB1.2V
C8005 0.1u 16V
LVVSS
4/23修正
5/7 L8002削除 パターン的にはベタにせず、分離状態を維持すること。
（分離検討できる余地を残すため）
VDDR12 SUB1.2V
C8009 10u 10V
C8010 0.1u 16V
C8011 0.1u 16V
L8003 J0JCC0000287
VDDA12 P_VDDA12
IC8012 0.47u 10V
7/2 保険化
7/20 承認品に変更

SUB1.5V 9/7 VJUMP削除
390mA
5/27 0Ω化
8/6 VJUMP化
5/13削除
C8022 0.1u 16V
C8023 0.1u 16V
C8020 0.1u 16V
C8013 1000p 50V
C8019 10u 10V
C8014 1u 10V
C8016 0.1u 16V
VDDIO15 SUB1.5V
L8015 J0JCC0000287
7/2 追加
VDDIOCK P_VDDIOCK15
C8015 1u 10V

HDMI3.3V
42.6mA
C8038 1000p 50V
C8037 10u 10V
AVDDH33 HDMI3.3V
4/23修正
TMDSラインをPUしている機器に対応するために保護用REGで分離

SUB3.3V
382mA
L8006 J0JHC0000045
C8036 10u 10V
C8034 0.1u 16V
C8033 10u 10V
C8035 0.1u 16V
VDD33 P_VDD33
DPAVDD33(DIO PLL) P_VDD33
C8023 0.1u 16V
C8039 10u 10V
C8040 0.1u 16V
C8041 0.1u 16V
LVVDD33 SUB3.3V
L8007 J0JHC0000045
LVVSS
AVDDEVE33 P_AVDD33
9/13 ハム音対策で削除
AVSSEVE
AVDDHP33 P_AVDD33
C8025 10u 10V
AVSSHP
AVDDPLLA_33_PLLD1_33 P_AVDD33
C8031 0.1u 16V
9/13 ハム音対策で保険→実装に変更
AVDPWM33 P_AVDD33
C8030 100p 50V
AVSSPWM
AVDDPLLD2_33 P_AVDD33
C8027 100p 50V
AVDAPUSB33 P_AVDD33
C8028 0.1u 16V
AVSSAPUSB
L8005 J0JHC0000045
R8001 330
20mA
C8024 10u 10V
C8026 22u 4V
C8029 0.1u 16V
AVDDADA33 P_AVDDADA33
AVSSADA

VDDSD18V33V
VJ8010 VJUMP1005-P
70mA
5/27 0Ω化
8/6 VJUMP化
C8046 0.1u 16V
P_VDDSD18_33
TCON2.5V
VJ8011 VJUMP1005-P
20mA
5/27 0Ω化
8/6 VJUMP化
C8047 0.1u 16V
P_VDD25TCON

SUB1.8V
VJ8008 VJUMP1608-P
9/13 ハム音対策で未実装予定
9/13 ハム音対策で追加
555mA
5/27 0Ω化
8/6 VJUMP化
C8043 0.1u 16V
AVSSV
C8055 1000P 50V
VDDAVAD18 P_VDD18
C8045 100p 50V
C8042 10u 10V
AVDDH18 P_VDD18
L8009 J0JKC0000021
AVDDSIF18 P_AVDDSIF18
C8044 0.1u 16V
AVSSSIF

STB3.3V
VJ8013 VJUMP1608-P
30mA
5/27 0Ω化
8/6 VJUMP化
C8049 10u 10V
C8051 16V 0.1u
VDD33STW P_VDD33STW
STMAVDD33 P_VDD33STW
C8050 16V 0.1u
STMADAVSS

STB1.2V
VJ8014 VJUMP1005-P
40mA
5/27 0Ω化
8/6 VJUMP化
C8053 0.1u 16V
C8052 10u 10V
P_VDD12STW

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-701
SHEET Ver.	1.40
SHEET Mng.	yokoyama

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

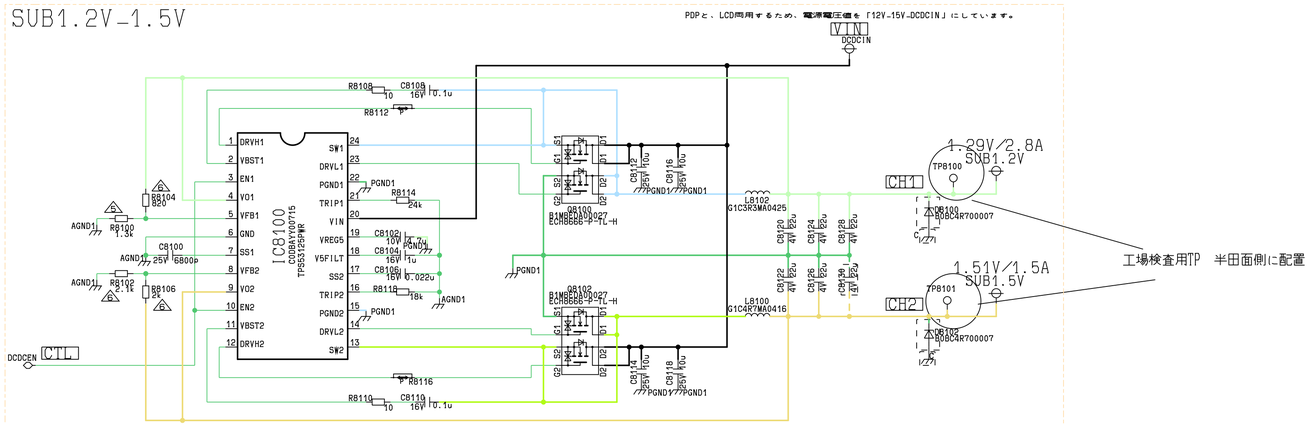
CONFIDENTIAL

SHEET701：sLD2 POWER
CRNo：8001 — 8099

PLOT	11/02/10 / 02:20:13	Administrator
VARIATION		
SHEET	TNPH0907.A.cir/702.sht	

仮想モジュール回路

SUB1.2V_1.5V



過電流保護動作設定

出力	MAX	設定値		
1.5V	1.5A	2.6A	R8114	18k Ω
1.2V	2.8A	4A	R8118	24k Ω

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/19	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-702
SHEET Ver.	1.20
SHEET Mng.	fujimoto

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

CONFIDENTIAL

SHEET702 : sLD2 DC/DC
CRNo : 8100 — 8199

PLOT 11/02/10 / 02:20:14 | Administrator
VARIATION
SHEET TNPH0907.A.cir/703.sht

LOCK/SLD2

PEAKS-sLD2

P_MMDQ[0-15] 201:E2

sLD2(■) DDR3(■)
MMD08 DQL2
MMD09 DQL0
MMD010 DQL4
MMD011 DQL6
MMD012 DQL3
MMD013 DQL1
MMD014 DQL5
MMD015 DQL7

sLD2(■) DDR3(■)
MMD00 DQU5
MMD01 DQU3
MMD02 DQU7
MMD03 DQU0
MMD04 DQU2
MMD05 DQU4
MMD06 DQU6
MMD07 DQU1

2010/5/10 Swap確認済み
2010/5/10 Swap確認済み

sLD2(■) DDR3(■)
MMDM0 DMU
MMDM1 DML
MMDQS0 DQSU
MMDQS1 DQSL

201:F3 P_MMDQS1
201:F3 P_MMXDQS1
201:F3 P_MMDQS0
201:F3 P_MMXDQS0
201:F3 P_MMDM1
201:F3 P_MMDM0

P_MMA[0-13]
201:F5 P_MMA0 … P_MMA13

201:F4 P_MMRODT — 240 R8200 1% — R8204 1k 1% / R8207 1k 1%
201:F4 P_MMVREF0 — 7/2削除
201:F4 P_MMVCAL — C8200 0.1u 16V
201:F4 P_MMVREF1 — R8203 1k 1% / R8206 1k 1% / R8205 1k 1% / R8208 1k 1% — 7/2削除

SUB1.5V

2010/5/7 パーチャルショート削除

7/20 未実装 実装に変更

7/2 VREFからの電源供給経路削除

2010/5/7 VREF I 共通化

7/2 VREFからの電源供給経路削除

201:F5 P_MMBA0 … P_MMBA2
201:F2 P_MMCK / P_MMCKK
201:F4 P_MMODT0
201:F2 P_MMCKE0
201:F2 P_MMCS0
201:F2 P_MMCS1
201:F4 P_MMCKE1
201:F4 P_MMODT1
201:F2 P_MMRAS
201:F2 P_MMCAS
201:F2 P_MMWE
201:F4 P_MMRESET — R8221 10k

R8222 EXB28V330JX
R8223 EXB28V330JX
SIM抵抗より 33ohmでFIX (2010/6/4)
2010/5/13 ミラー修正

201:E2 P_MMDQ[16-31]
201:F3 P_MMDQS2
201:F3 P_MMXDQS2
201:F3 P_MMDQS3
201:F4 P_MMXDQS3
201:F3 P_MMDM2
201:F3 P_MMDM3

P_MMCK — R8218 220
P_MMCKK
AD_MMCKE0
AD_MMXCS0
P_MMXRAS
P_MMXCAS
P_MMXWE
P_MMBA0 … P_MMBA2
AD_MMODT0
P_MMXRESET — R8220 240 1%

SUB1.5V — R8210 / R8214 — VR8204 — R8224 / R8225 — VR8205 — R8212 / R8216

C8203 0.1u 16V
C8204 0.1u 16V
2010/5/7 共通化
C8205 0.1u 16V
C8206 0.1u 16V
R8219 240 1%
R8217 220

sLD2(■) DDR3(■)
MMD016 DQL0
MMD017 DQL2
MMD018 DQL3
MMD019 DQL1
MMD020 DQL4
MMD021 DQL7
MMD022 DQL5
MMD023 DQL6

sLD2(■) DDR3(■)
MMD024 DQU1
MMD025 DQU7
MMD026 DQU5
MMD027 DQU4
MMD028 DQU3
MMD029 DQU0
MMD030 DQU2
MMD031 DQU6

2010/5/10 Swap確認済み
2010/5/10 Swap確認済み
2010/5/13 Swap修正

1Gbit DDR3 CH0

IC8200
J7 CK / K7 /CK / K9 CKE / L2 /CS / J3 /RAS / K3 /CAS / L3 /WE / M2 BA0 / N8 BA1 / M3 BA2 / K1 ODT / T2 /RESET / L8 ZQ / M8 VREFCA / H1 VREFDQ
E3 DQL0 / F7 DQL1 / F2 DQL2 / F8 DQL3 / H3 DQL4 / H8 DQL5 / G2 DQL6 / H7 DQL7
D7 DQU0 / C3 DQU1 / C8 DQU2 / C2 DQU3 / A7 DQU4 / A2 DQU5 / B8 DQU6 / A3 DQU7
F3 DQSL / G3 /DQSL / C7 DQSU / B7 /DQSU
E7 DML / D3 DMU

SUB1.5V — C3ABTY000025
C8216 10u 10V
C8217 0.1u 16V
C8218 0.1u 16V
C8219 0.1u 16V
C8220 0.1u 16V
C8221 0.1u 16V
C8222 0.1u 16V
C8223 0.1u 16V
C8224 0.1u 16V
A1 A8 C1 C9 D2 E9 F1 H2 H9 VDDQ
B2 D9 G7 K2 K8 N1 N9 R1 R9 VDD
A9 B3 E1 G8 J2 J8 T9 M1 M9 P1 P9 T1 VSS
B1 B9 D1 D8 E2 E8 F9 G1 G9 VSSQ
2010/5/10 C: x4未実装

P_MMA0 … P_MMA13
N3 P7 P3 N2 P8 P2 R8 R2 T8 R3 L7 R7 N7 T3 A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10(AP) A11 A12(/BC) NC
J1 J9 L1 L9 M7 T7 NC
2Gbit対応

1Gbit DDR3 CH1

IC8201
J7 CK / K7 /CK / K9 CKE / L2 /CS / J3 /RAS / K3 /CAS / L3 /WE / M2 BA0 / N8 BA1 / M3 BA2 / K1 ODT / T2 /RESET / L8 ZQ / M8 VREFCA / H1 VREFDQ
E3 DQL0 / F7 DQL1 / F2 DQL2 / F8 DQL3 / H3 DQL4 / H8 DQL5 / G2 DQL6 / H7 DQL7
D7 DQU0 / C3 DQU1 / C8 DQU2 / C2 DQU3 / A7 DQU4 / A2 DQU5 / B8 DQU6 / A3 DQU7
F3 DQSL / G3 /DQSL / C7 DQSU / B7 /DQSU
E7 DML / D3 DMU

SUB1.5V — C3ABTY000025
C8207 10u 10V
C8208 0.1u 16V
C8209 0.1u 16V
C8210 0.1u 16V
C8211 0.1u 16V
C8212 0.1u 16V
C8213 0.1u 16V
C8214 0.1u 16V
C8215 0.1u 16V
A1 A8 C1 C9 D2 E9 F1 H2 H9 VDDQ
B2 D9 G7 K2 K8 N1 N9 R1 R9 VDD
A9 B3 E1 G8 J2 J8 T9 M1 M9 P1 P9 T1 VSS
B1 B9 D1 D8 E2 E8 F9 G1 G9 VSSQ
2010/5/10 C: x4未実装

P_MMA0 … P_MMA13
N3 P7 P3 N2 P8 P2 R8 R2 T8 R3 L7 R7 N7 T3 A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10(AP) A11 A12(/BC) NC
J1 J9 L1 L9 M7 T7 NC
2Gbit対応

SUB1.5V
C8226 0.1u 16V
C8227 0.1u 16V
C8228 0.1u 16V
C8229/8230削除
2010/5/7 EMI対策用 DRAM周辺に準備（未実装）

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

SHEET CHANGE INFORMATION
SHEET NO. SLD2-703
SHEET Ver. 1.20
SHEET Mng. hanafusa

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

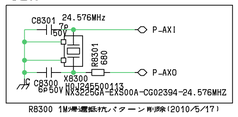
CONFIDENTIAL

SHEET703 : sLD2 DDR3
CRNo : 8200 — 8299

PLOT	11/02/10 /02:20:16	Administrator
VARIATION		
SHEET	TNPH0907.A.cir/704.sht	

LOCK/SLD2

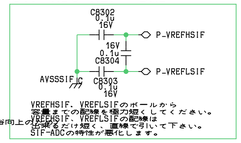
CLK



R8300 1M抵抗削除(ターミネート)(2010/5/17)

9/6 X8301 品番変更 C8300 10p->6p C8301 10p->7p に変更 (発振余裕向上のため)

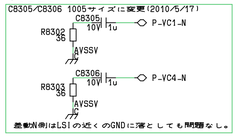
SIF-ADC REF (DMD)



VREFHSIF, VREFLSIFのボールから
容量までの配線を幅広の短くしてください。
VREFHSIF, VREFLSIFの配線は
並列をだけ短く、直線で引いて下さい。
SIF-ADCの特性が悪化します。

VIDEO INPUT

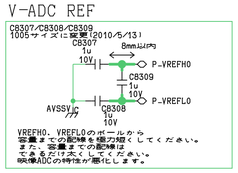
C8305/C8306 1005サイズに変更(2010/5/17)



差動N側はLSIの近くのGNDに落としても問題なし。

V-ADC REF

C8307/C8308/C8309
1005サイズに変更(2010/5/13)



VREFHO, VREFLOのボールから
容量までの配線を幅広短くしてください。
また、容量までの配線は
できるだけ太くしてください。
映像ADCの特性が悪化します。

A-ADC REF

VREF1V5のボールから容量までの配線を
幅広短くしてください。
音声ADCのS/Nが悪化します。

C8310 1005サイズに変更(2010/5/17)

V-DAC REF

COMPのコンデンサは、できるだけ
ボール直近に配置してください。
ボールからの配線は最短とし、
周りをGND/電源でシールドしてください。
ノイズは、映像信号のS/N悪化に直結します。
S/Nが許せば、容量値を小さくすることも可能です。

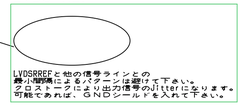
C8311 1005サイズに変更(2010/5/17)

USB REF

USB*RREFは、できるだけボール直近に
配置してください。
ボールからの配線は最短とし、
できれば周りをGND/電源で
シールドしてください。
EYEパターンへのジッタとなり、
コンプライアンステストでNGとなります。

LVDS REF

7/27 sheet 002に移動



LVDSRREFと他の信号ラインとの
疎ノ結線によるパターンは避けて下さい。
クロストークにより出力信号のJitterになります。
可能であれば、GNDシールドを入れて下さい。

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/13	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-054	11/01/25	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-704
SHEET Ver.	1.30
SHEET Mng.	morii e

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

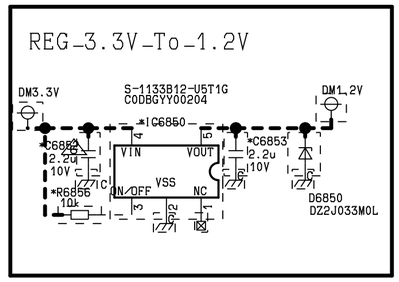
SHEET704 : sLD2 DEST
CRNo : 8300 — 8399

CONFIDENTIAL

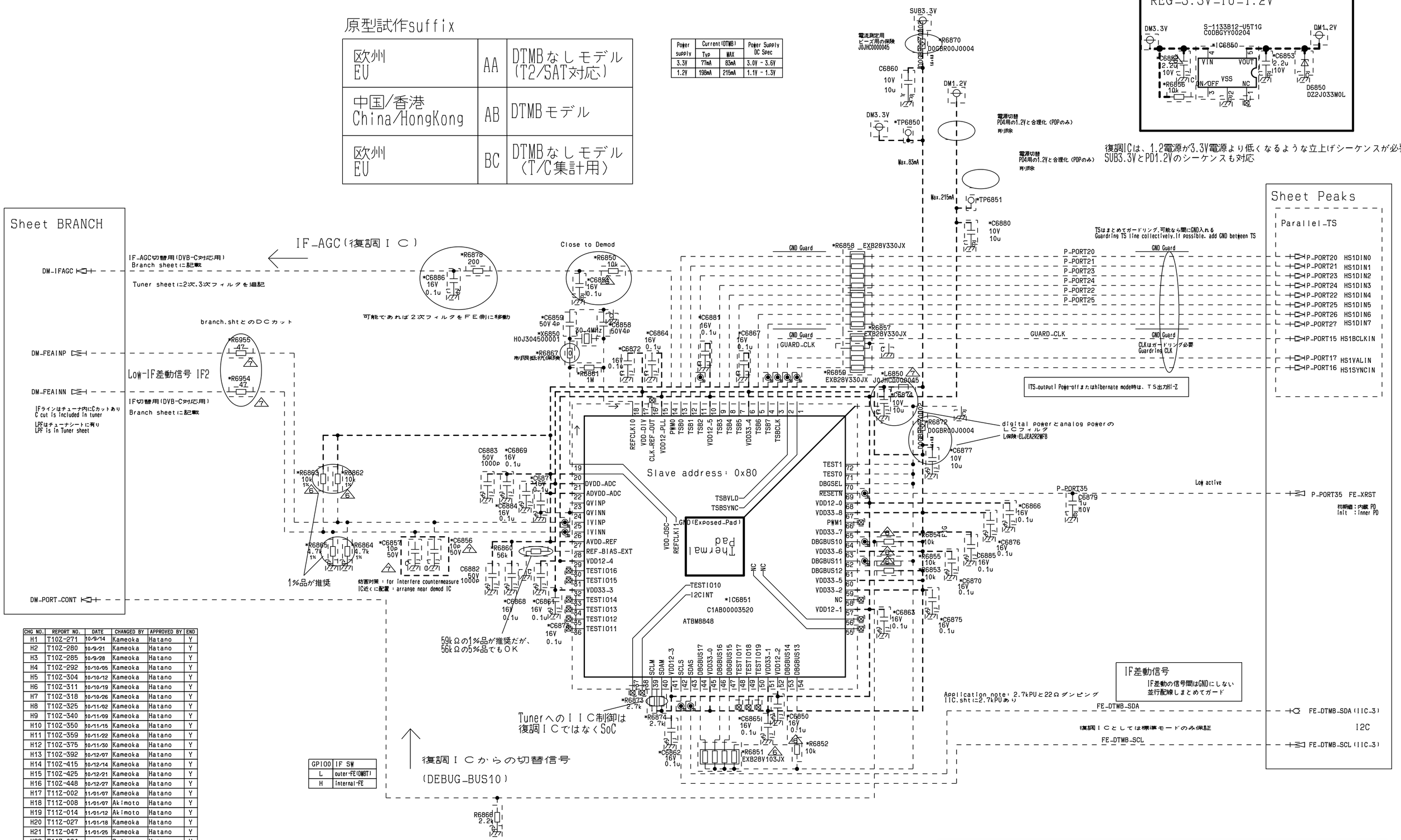
原型試作suffix

欧州 EU	AA	DTMBなしモデル (T2/SAT対応)
中国/香港 China/HongKong	AB	DTMBモデル
欧州 EU	BC	DTMBなしモデル (T/C集計用)

Power supply	Current(DTMB) Typ	MAX	Power Supply DC Spec
3.3V	77mA	83mA	3.0V - 3.6V
1.2V	198mA	215mA	1.1V - 1.3V



復調ICは、1.2電源が3.3V電源より低くなるような立上げシーケンスが必要
SUB3.3VとPD1.2Vのシーケンスも対応



CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

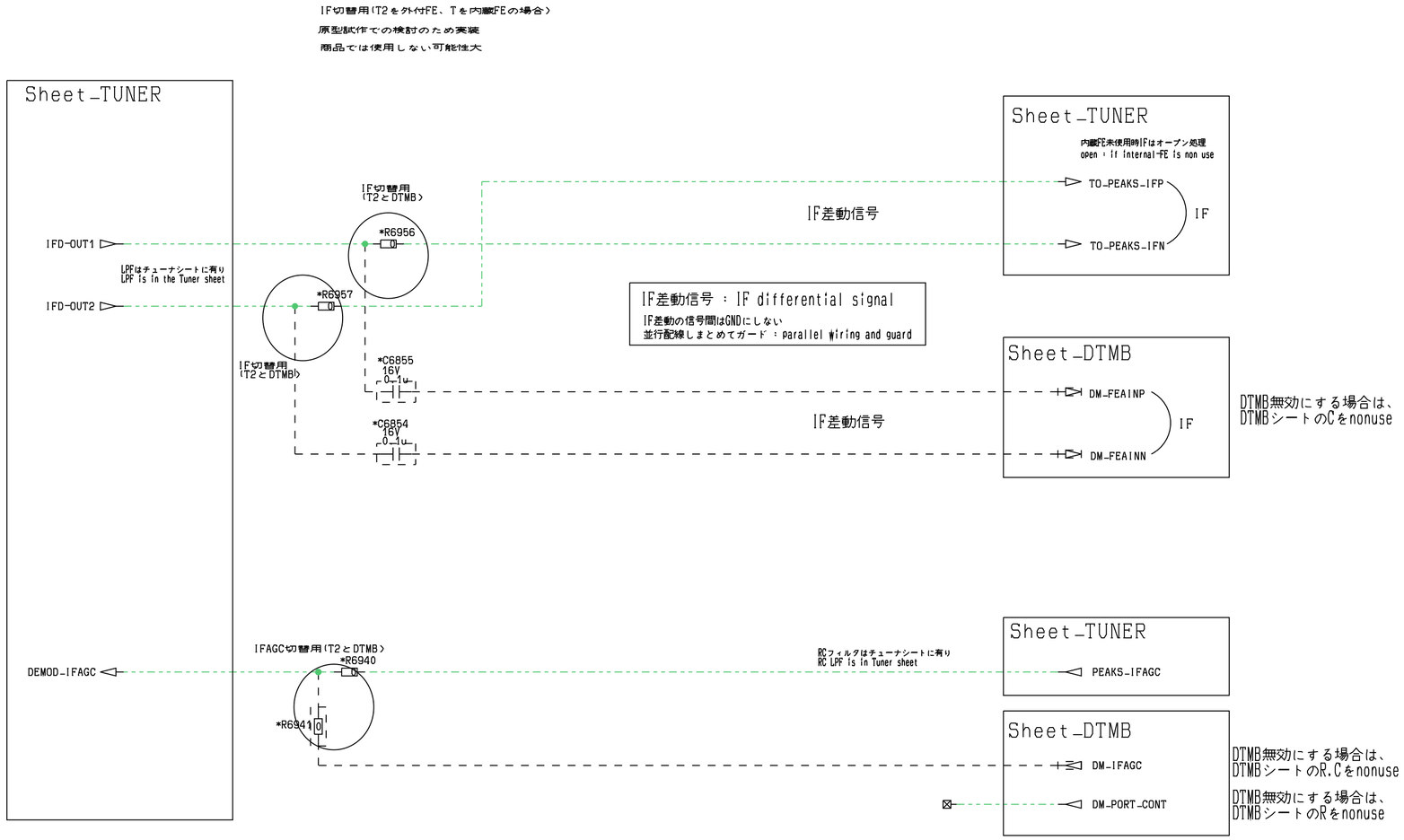
CONFIDENTIAL

DTMB FE(HK/CHINA)

CRNo:6850～6924

IF／IFAGC

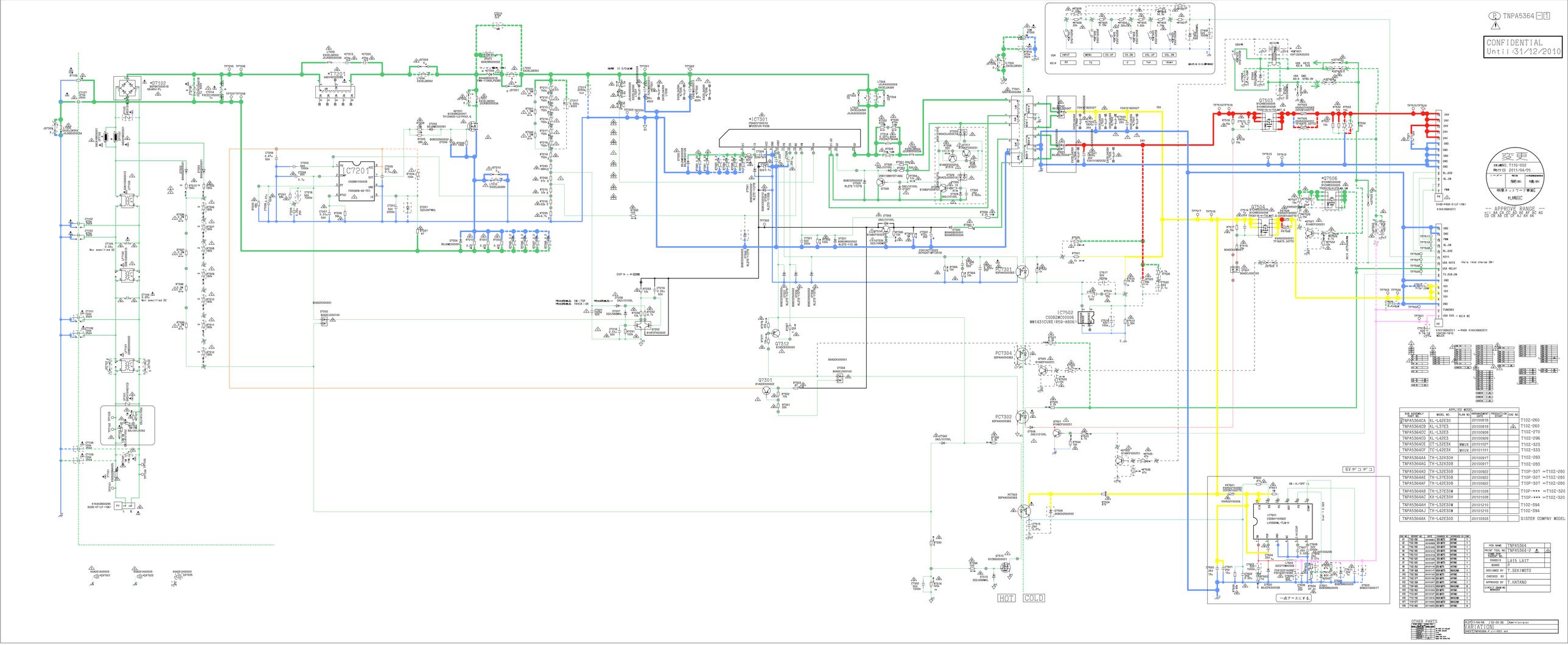
原型試作のための暫定シート



CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	T10Z-271	10/9/14	Kameoka	Hatano	Y
H2	T10Z-280	10/9/21	Kameoka	Hatano	Y
H3	T10Z-285	10/9/28	Kameoka	Hatano	Y
H4	T10Z-292	10/10/05	Kameoka	Hatano	Y
H5	T10Z-304	10/10/12	Kameoka	Hatano	Y
H6	T10Z-311	10/10/19	Kameoka	Hatano	Y
H7	T10Z-318	10/10/26	Kameoka	Hatano	Y
H8	T10Z-325	10/11/02	Kameoka	Hatano	Y
H9	T10Z-340	10/11/09	Kameoka	Hatano	Y
H10	T10Z-350	10/11/15	Kameoka	Hatano	Y
H11	T10Z-359	10/11/22	Kameoka	Hatano	Y
H12	T10Z-375	10/11/30	Kameoka	Hatano	Y
H13	T10Z-392	10/12/07	Kameoka	Hatano	Y
H14	T10Z-415	10/12/14	Kameoka	Hatano	Y
H15	T10Z-425	10/12/21	Kameoka	Hatano	Y
H16	T10Z-448	10/12/27	Kameoka	Hatano	Y
H17	T11Z-002	11/01/07	Kameoka	Hatano	Y
H18	T11Z-008	11/01/07	Akimoto	Hatano	Y
H19	T11Z-014	11/01/12	Akimoto	Hatano	Y
H20	T11Z-027	11/01/18	Kameoka	Hatano	Y
H21	T11Z-047	11/01/25	Kameoka	Hatano	Y
H22	T11Z-064	11/01/26	Saito.s	Hatano	Y
H23	T11Z-068	11/01/27	Akimoto	Hatano	Y
H24	T11Z-073	11/01/31	Saito.s	Hatano	Y
H25	T11Z-078	11/02/01	Arikawa	Hatano	Y

CONFIDENTIAL

SHEET708 : FE_Branch
CRNo : 6925～6999


TNPA5364 1
CONFIDENTIAL
Until 31/12/2010
APPROVE RANGE
AA CA CB CC CD AJ AK AC AG
CU CD AB CE CF AJ AR AC
HOT
COLD
6Vデコデコ
一点アースにする
IC7201
IC7502
IC7503
IC7504
IC7506
IC7601
Q7301
Q7312
Q7503
Q7504
Q7506
PC7304
PC7302
APPLIED MODEL
TNPA5364CA KL-L42E30 20100818 T10Z-260
TNPA5364CB KL-L37E3 20100818 T10Z-260
TNPA5364CC KL-L32E3 20100908 T10Z-270
TNPA5364CD KL-L42E3 20100929 T10Z-296
TNPA5364CE CT-L32E3X MWUX 20101027 T10Z-323
TNPA5364CF TH-L42E3X MYUX 20101101 T10Z-333
TNPA5364AA TH-L32X30H 20100917 T10Z-283
TNPA5364AG TH-L32X30B 20100917 T10Z-283
TNPA5364AD TH-L32E30B 20100922 T10P-307 =T10Z-280
TNPA5364AE TH-L37E30B 20100922 T10P-307 =T10Z-280
TNPA5364AF TH-L42E30B 20100922 T10P-307 =T10Z-280
TNPA5364AB TH-L37E30W 20101028 T10P-**** =T10Z-320
TNPA5364AC KX-L42E30H 20101028 T10P-**** =T10Z-320
TNPA5364AH TH-L32E30W 20101210 T10Z-394
TNPA5364AJ TH-L42E30W 20101210 T10Z-394
TNPA5364AK TH-L42E30D 20110503 SISTER COMPNY MODEL
PCB NAME TNPA5364
PRINT TOOL NO. TNPA5364-2
DESIGNED BY T.SEKIMOTO
CHECKED BY
APPROVED BY T.HATANO
OTHER PARTS
PLOT11/04/06 /32-33.36 Administrator
VARIATION
SHEET:TNPA5364_P_J1/~SS1.ai

PLOT[10/09/28 /01:43:00 Administrator
VARIATION
SHEET[TNPA5377.LD.ctr/001.sht

K1KY16BA0302
S16B-PHR-SM4-TB(D)(LF)(SN)

LD4

LED24V

VCC (24V)	1
VCC (24V)	2
VCC (24V)	3
VCC (24V)	4
VCC (24V)	5
GND	6
GND	7
GND	8
GND	9
LED-SDS	10
BL-ON	11
NC	12
PWM1	13

K1KY12BA0322
S12B-PH-SM4-TB(D)(LF)(SN)

LD2

32HD nil	32FHD AB	37 AC
ANODE1	ANODE1	ANODE1
NC	NC	NC
NC	LED1	LED1
LED2	LED2	LED2
LED3	LED3	LED3
NC	NC	LED4
NC	NC	LED5
LED6	LED6	LED6
LED7	LED7	LED7
NC	LED8	LED8
NC	NC	NC
ANODE2	ANODE2	ANODE2

780kΩ↑20kΩ (OVP : 112V) AB, AC
560kΩ↑20kΩ (OVP : 81.2V) nil, AA

3216 200V耐圧C探し中

OCP : 1.6A (0.25Ω)

IC9500
BD8779EFV-HVE2
C02BZ0001816

Thermal Pad

LSPon手オープン：5V設定

SOS OPERATE
実装時 : OPEN
未実装時 : LOW

32HD : 60mA仕様　3.3Ω パラ
それ以外 : 120mA仕様　3.3Ω

D5911～D5917, D5919削除　8/20
ショート試験クリアのためホケンパターン削除

PGND, AGNDは一点アースにしてください

手配
型名(機)NO. T10P-305
発行日 2010/09/21
作成 水野
LCDテレビ技術G

-- APPROVE RANGE --
nil AB AC AA

VARIATION

仕向け判別

(32HD)　(シルク)

nil : TZ-RCH1102
A B : TZ-RCH1105
A C : TZ-RCH1001
A D : 未実装
A E : 未実装
A F : 未実装
A G : 未実装
A H : 未実装

※部品配置に干渉しないサイズでシルクを入れてください

(ランド)

Do NOT Insert

APPLIED MODEL					
SUB ASSEMBLY PART NO.	MODEL NO.	PLAN NO.	ARRANGEMENT DATE	PRODUCTION START	CHG NO.
TNPA5377	32HD				
TNPA5377AA	32HD (KM)				
TNPA5377AB	32FHD				
TNPA5377AC	37inch				

SINGLE PCB

PCB NAME	TNPA5377
PRINT TOOL NO.	TNPA5377-1
PANEL NO.	
CHASSIS	
BOARD	LD
DESIGNED BY	J.MIZUNO
CHECKED BY	T.YAMADA
APPROVED BY	S.KAWAMURA
CIRCUIT DRAWING MAKER	J.MIZUNO

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	ITEM
K1	T10P-275	2010.08.06	J.MIZUNO	K.KAWAMURA	1
K2	T10P-296	2010.09.06	J.MIZUNO	K.KAWAMURA	
K3	T10P-305	2010.09.16	J.MIZUNO	K.KAWAMURA	

PC/CHIP・SMD/CHIP・Partial DIP

Resistor	R_	0603	CR CHIP, CREAM SOLDER
Capacitor	C_	0603	CK 6V CHIP SMD
Diode	D_	0603	SMD
Inductor	L_	0603	SMD
Transistor	Q_	0603	FLOWED SOLDER
Thermistor	TH_	0603	SMD

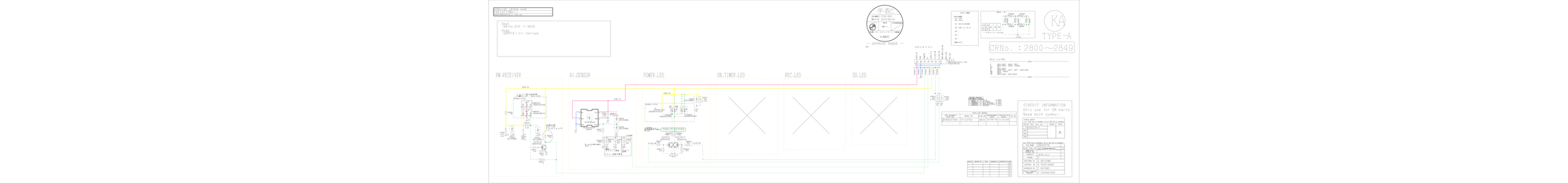


Chart
Refrig.KS3 -> KA10
Chart
Refrig.kit non-use
RM-RECEIVER
AI-SENSOR
POWER-LED
ON-TIMER-LED
REC-LED
SD-LED
CIRCUIT INFORMATION
Only use for CR Parts
Need both symbol.
TYPE-A
CRNo. : 2800～2849

Panasonic